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1950

JOURNAL OF THE WIRELESS INSTITUTE OF AUSTRALIA

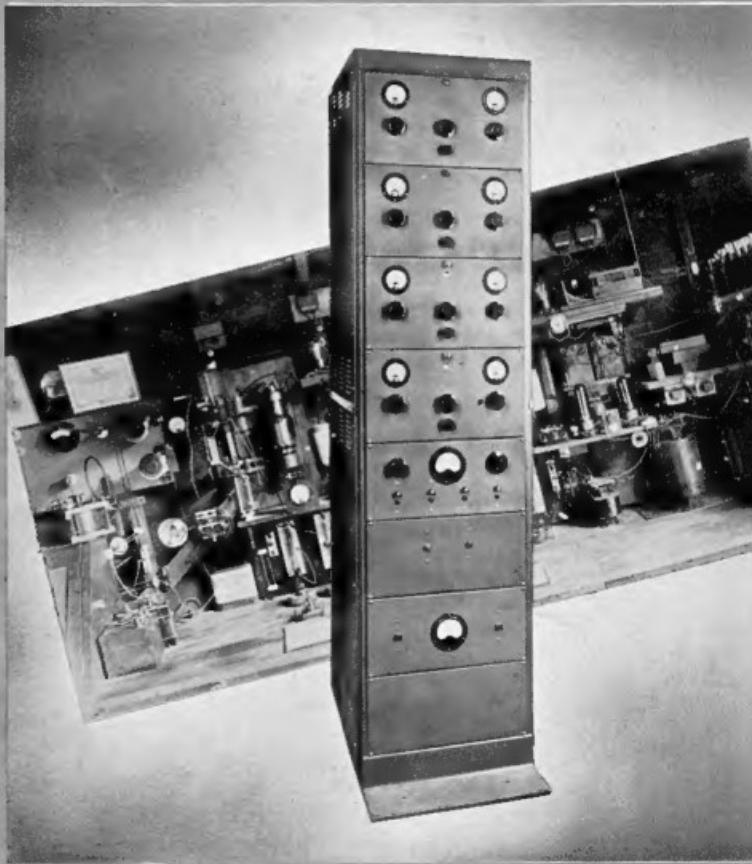
# Amateur Radio

VICTORIAN  
DIVISION'S  
25<sup>TH</sup>  
ANNIVERSARY

For the Experimenter  
and Radio Enthusiast

9D.

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## EDITORIAL



## Victorian Division's 25th Anniversary

This number of "Amateur Radio" marks the 25th Anniversary of the Victorian Division of the Wireless Institute of Australia. On behalf of this Division, I wish to thank the Federal Executive of our Institute for affording me the privilege of writing this editorial.

In thanking Federal Executive I am reminded of changes which have occurred since 1st December, 1925, when our Victorian Division was incorporated under the Companies Act. In the next few years various commercial journals became in turn the official organ of the Wireless Institute of Australia. October, 1933, saw the first issue of "Amateur Radio," as the official organ of the Victorian Division and of the Royal Air Force Wireless Reserve. The editorial by the President, the late George Thompson, claimed approximately 300 members and three affiliated clubs for Victoria. The Victorian Railways Institute Wireless Club was one of these, as it is today. That issue contained an article by Max Howden, VK3BQ, appropriately entitled "Simple Crystal Control." It was a veritable milestone in Amateur Radio. In November, 1933, the editorial stated that "we have been honoured and are proud to state that this journal is now recognised by the Federal Headquarters as the official organ of the Wireless Institute of Australia."

Subscribers to the Memorandum of Association formally incorporating the Victorian Division of the Wireless Institute of Australia were Maxwell Howden, the late R. M. Dalton, B. J. Masters, Bruce Hardie, and the late K. Love. To these men and others of that time, Victorian Division owes a good deal. We have

benefited not only from their foresight in organisation, but also from their technical ability in the field of Amateur Radio. Their success in the Trans-Pacific Tests of 1923 and in the first transmission of speech to England in 1924 were steps in a series of remarkable developments.

In those 25 years, Amateur Radio has achieved much. The Victorian Division, now consisting of 720 members, is proud that its members have contributed to those achievements, and it is a loyal section of the parent Australian organisation now consisting of 2500 members.

Yes, those 25 years have seen great things in Amateur Radio in our portion of the Ham world, but we must now look forward. What are the grounds for allocation of portion of modern communication channels for the exclusive use of our section of the community, mainly as a hobby? In present times it is understandable that increasing difficulty is experienced by any section in alienating community property for exclusive use of that particular section. Amateur Radio must feel the effect of this trend. What grounds have we to make special claims and what have we to offer in return?

First to mind is the service of Amateur Radio in emergencies. October issue of this magazine contained a letter of thanks to Amateur operators from the Post Master-General for their help in the flood peril in New South Wales. Members will recall similar instances where Amateur Radio has been privileged and able to afford help to the community, and the recent letter from the P.M.G. is very pleasing and reassuring.

(Continued on Page 11)

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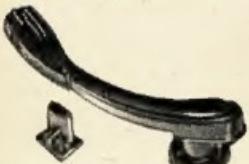
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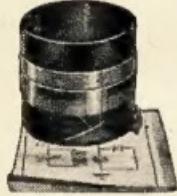
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transmitter is turned on and the pick-up aerial is adjusted to give exactly full scale deflection on the meter, making sure "The Quizmaster" is properly tuned to resonance. Next reduce the power input to the transmitter by exactly half and note "The Quizmaster's" reading. This represents a reduction in signal strength of 3 db. Again reduce power input by half and read the meter. This is another reduction of 3 db or a total of 6 db from full scale reading. The process can be repeated as far as desired.

Alternative calibration can be made by setting the transmitter on one-quarter power and adjusting "The Quizmaster" pick-up aerial to give half scale reading. If then power is doubled, the new meter reading will be +3 db; and if again doubled it will then be +6 db. Likewise powers below quarter power can be used to get drops in strength. Of course in the first case if you want to read + or - against half scale, it's only a matter of labelling the meter case correctly.

It must be remembered that this calibration is arbitrary. If you take the meter along to a friend's shack and he uses different power or a different aerial or you use a different pick-up aerial, you may get more or less indication on the meter, but if you adjust the pick-up aerial so you get full scale deflection irrespective of power, then the meter will read correctly in decibels change.

The meter cannot be calibrated in absolute units of field strength, but only

in change in relative strengths and after all, that's what Hams are most interested in with aerial systems.

In conclusion, "The Quizmaster" is one instrument that remains "put" for its uses are legion and this article merely covers a brief outline of its most important uses towards better Ham Radio.

#### APPENDIX

The 20 watt resistor in the h.t. B plus line is adjusted so that with either 6SN7 switched in, the current flowing in the VR150/30 is between 25 and 30 Ma., but not over 30 Ma. When the 6V6G is switched in the VR150/30's current will drop to about 5 Ma. The voltage at the output of the VR150/30 will remain at 150 volts.

Due to changes in input impedance between the different circuits, the frequency calibration of the grid dip oscillator will not hold for the other two functions.

The grid dip circuit can also be used as a wavemeter if a switch is arranged to remove the h.t. from the 6V6G, but the field strength position is much more satisfactory.

Standard Inductor No. 1: One open turn of 1/32" thick brass, 2" diameter by 1/8" wide. This is tightly coupled to the two-turn coupling coil on the end of the co-ax cable.

Standard Inductor No. 2: 4½ turns of 16 gauge B. & S. enamelled wire, 2" diameter tightly coupled to the co-ax coupling loop.

If these are to be regularly used, it is recommended that each be made up with its own co-ax cable, otherwise variation in coupling can cause serious erroneous readings.

Connection to condenser under test is via short pieces of brass which must make good fitting to the condenser being tested.

#### COIL DATA

No. 1—210 turns No. 32 B. & S. enamelled wire close wound on 1½" diameter. Coupling coil, 30 turns, same wire at earthed end of main coil—1 millihenry, 500 to 1000 Kc. approx.

No. 2—70 turns No. 32 B. & S. enamelled wire close wound on 1½" diameter. Coupling coil, 7 turns, same wire at earthed end of main coil—200 microhenries, 1 to 2.5 Mc. approx.

No. 3—38 turns No. 20 B. & S. enamelled wire close wound on 1½" diameter. Coupling coil, 4 turns, same wire wound at earthed end of main coil—40 microhenries, 2.5 to 5 Mc. approx.

No. 4—14½ turns No. 20 B. & S. enamelled wire close wound on 1½" diameter. Coupling coil 2 turns of same wire close wound at earthed end of main coil—10 microhenries, 5-10 Mc. approx.

No. 5—8 turns No. 18 B. & S. enamelled wire close wound on 1½" diameter. Coupling coil, 2 turns, same wire close wound at earthed end of main coil—2.5 microhenries, 10 to 20 Mc. approx.

Note.—Coils Nos. 1 and 2 are mainly for inductance and capacity checking.

## USING TYPE 19 GENEMOTOR FOR 12 VOLT D.C. OPERATION

The above unit has been operating satisfactorily for the last three years and therefore output ratings and modifications carried out here may be of interest.

The unit is compound wound and needs no starter mechanism. The ratings of the two output windings as given on the name plate are correct with 14 volts at the input terminals, viz.: 275 volts (110 Ma.) and 500 volts (50 Ma.). At 12 volts, these drop to 250 and 450 volts respectively. The 250 volt section is adequately filtered for supplying a v.f.o. and low power stages.

The modifications carried out were to remove switch, input and output sockets, and associated wiring, together with the r.f. choke in the negative input lead. Two heavy terminals were fitted in place of the sockets on the front of the case. The negative terminal grounded to case and connected to negative input brushholder by a heavy lead. The positive terminal connects to the Series Field lead through the r.f. choke. Do not connect direct to the brushholder.

Holes may also be cut in the case to allow easy access to the grease nipples on the bearing housings.

On the output side the negative 250 volt remains as originally connected (to ground). The negative brushholder of the 500 volt winding is connected direct to the positive brushholder of the 250 volt winding, thus placing the two windings in series.

The output voltages are approximately 250 volts and 650 volts on load, with the input current running between 12 and 14 amperes.

This unit is supplying a five stage rig including v.f.o., with an input to the final 807 of 45 watts on c.w. The final voltage (600V) varies less than 20 volts between key-up and key down. How-

ever, to obtain good regulation, the input leads must be as short as possible and heavy—not less than 7/036". At this station, the genemotors are placed as close to the batteries as possible; an automotive horn relay being used to remote control the Type 19.

—J. M. FARRER, VK3DP.

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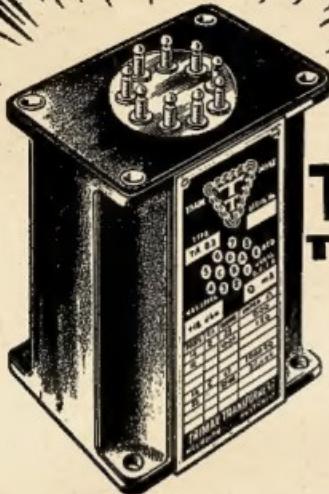
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# Converting ZB2 Homing Adaptor for 50 or 144 Mc.

## 50 Mc. Converter

The adaptor in its original state consists of three RF stages using 954 acorn tubes and a detector using another 954. The original frequency band is 234 to 258 Mc., and it should be noted that no oscillator or frequency changer is incorporated. It has been found, however, that it is relatively simple to change the wiring to provide two RF stages, a mixer, and an oscillator, the output of

the converter being on 5 Mc. or on any desired frequency which the individual Ham may prefer. The circuit diagram of the finished converter given herewith should assist one in carrying out the modifications, which are listed, for ease in working.

1. Remove all surplus filament wiring and switch, and wire all filaments in parallel for 6.3v. operation. The adaptor was originally wired for 12 or 24v. and the switch was used to change over

from one to the other.

2. Remove plugs Nos. 1 and 3 at rear of unit retaining No. 2 plug as power inlet if desired, and the co-ax connectors as antenna input and if. output.

3. Commencing with the r.f. stage, cut existing coil leaving  $\frac{1}{2}$ " to  $\frac{3}{4}$ " of wire in position for soldering to new coil. Short grid tap on coil to stator of antenna trimmer. Remove ceramic condenser from stator of antenna trimmer to earth. Take out 10,000 ohm resistor in cathode circuit, leaving 1,000 ohm resistor intact and connect to earth, the junction of these two resistors being originally connected to rear plug by plain white wire, also to be taken out. Add a 0.001 uF. condenser from cathode to earth for additional by-passing, otherwise r.f. stages may oscillate because of the lower frequency.

4. The second r.f. stage remains intact with the exception of an additional 0.001 uF. condenser from cathode to earth and a new tuning coil.

5. Convert third r.f. stage to a mixer stage as follows: Remove plate coupling condenser and 30,000 ohm plate resistor. Remove cathode resistor and re-place with 100,000 ohm, which is the resistor removed from the first r.f. stage. Lift cathode by-pass condenser from earth. This condenser serves as a coupling condenser to oscillator (3.3 pF.).

\*\*\*\*\*  
Quite a number of ZB2 Homing Adaptors have been available on the Disposals market and in response to requests from members, we present herewith a collection of data on the above unit.

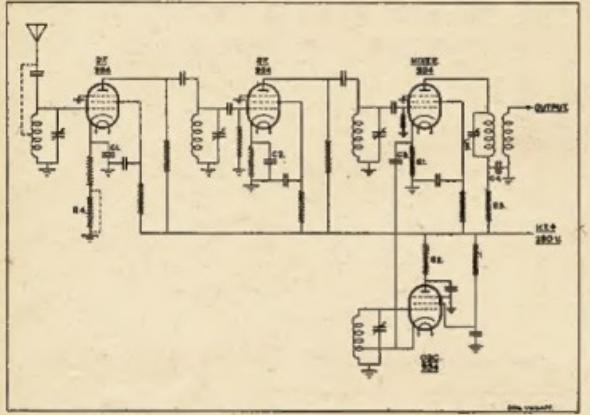
The first article we present with due acknowledgement to "Break In," and the latter article to Herb Stevens, VK3JO.

6. Convert detector stage to an oscillator as follows: Grid circuit remains intact. Remove cathode resistor and condenser.

7. In rear compartment remove existing r.f. choke, strip off the old winding and re-wind with 40 turns of 28 s.w.g. or sufficient to reach output frequency should this be other than 5 Mc. After waxing this coil, wind on four turns over the "cold" end, or more, depending on amount of coupling desired to provide connection for low impedance output. Replace what is now the i.f. transformer and connect the "hot" end to "B" positive through a 30,000 ohm resistor and by-pass to earth through a 0.001 uF. condenser. Place a 3-30 pF. trimmer across primary winding. One end of the output coil is earthed and the other end taken to "output" co-ax connector. Note that "output" connector is next to plug No. 2.

8. The plate of the oscillator tube is connected to "B" positive through 30,000 ohm resistor.

9. Coils. As mentioned for first r.f. stage, all existing coils are clipped out leaving  $\frac{1}{2}$ " to  $\frac{3}{4}$ " of wire to take new coils.



In the schematic diagram the grid condenser and grid resistor to the 954 oscillator were inadvertently omitted, existing components retained.

C1, C2, C4—0.001 uF. condenser.

C3—3.3 pF., lifted from ground.

C5—3/30 pF. trimmer.

R1—100,000 ohm resistor.

R2, R3—30,000 ohm resistor.

R4—100,000 ohm resistor shorted to earth or removed.

Coils—See text.

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All coils are close wound on  $\frac{1}{2}$ " diameter former with No. 20 s.w.g. enameled wire and slid off to leave a self supporting coil.

10. Solder the coils into place to the remaining wires of the original coils. The oscillator coil tap is connected to the cathode of the oscillator tube and also to the mixer tube cathode through the coupling condenser previously mentioned in instruction 5.

11. If a "grid dip" meter is available, all four circuits may now be lined up, r.f. stages and mixer to 50 Mc. and the oscillator to 45 Mc. (if the r.f. frequency is 5 Mc.), using the original air trimmers. At these frequencies the silvered slugs should be completely withdrawn from the coils. Note that as the slug is inserted into the coil, the inductance is lowered, and the frequency increased.

12. All screen circuits remain intact and are connected to "B" positive by the white wire with an orange stripe, and all plate circuits fed by the white wire with red stripe.

13. The original antenna coupling through the co-ax connector and line to first r.f. stage remains, also the small ceramic condenser coupling to the grid, or tap in on coil to suit impedance of transmission line.

The coils, as specified, give full band spread from 50 to 54 Mc., but to increase the coverage a smaller diameter coil, having more turns, will be required. The converter is very sensitive and the signal to noise ratio leaves nothing to be desired.

## 144 Mc. Converter

At the outset it was desired to operate the ZB2 as a converter for 144 Mc., feeding into the Type 3 Mk. II. receiver as a receiving set-up for portable use. Conversion along the lines described above for 50 Mc. should prove equally as satisfactory (provided coils of appropriate size are substituted for those specified) as the conversion method to be described, for the only differences are that the oscillator tube used here is a 955 triode, the injection into the mixer stage is by means of the suppressor grid, and the interstage coupling has been modified slightly to give somewhat better performance.

Conversion of the two r.f. stages is as described above for 50 Mc. All heaters are wired for 6 volt operation, unnecessary by-pass condensers and resistors removed, cathode by-passes increased to 0.001  $\mu$ F., screen by-passes (30 pF.) and resistors (0.2 meg.) remain, but the coupling between first and second r.f. stages and second r.f. and mixer stages is altered so that improved coupling is obtained. The grid resistors, 50,000 ohms, are removed, the grids connected directly to the tuned circuits, and the 5 pF. condensers, so gained, connected in parallel with the 5 pF. coupling condensers from the plates of the first and second r.f. stages to the tuned circuits. R.F. chokes were tried in place of the 30,000 ohm plate resistors, but as no improvement was noticed and as it was convenient to operate the unit

from a power supply giving a higher voltage than is recommended for these tubes, the resistors were replaced.

The reasons for the use of the 955 tube as oscillator are twofold: (a) One of the 954 tubes in the unit was found to be defunct, and (b) A 955 reposed in the spare tubes' department. However, getting it going presented one or two difficulties. The circuit used is essentially the same as the above 954 oscillator, the plate of the 955 being fed through a 30,000 ohm resistor, by-passed to chassis with 250 pF., and the cathode tapped up from the "cold" end of the coil. The values of grid condenser and leak are 100 pF. and 20,000 ohms respectively.

Snag number one was in getting the tube to oscillate and was overcome by increasing the value of the plate by-pass from 30 pF. (existing screen by-pass for 954 tube) to 250 pF. as mentioned above. Number two snag was in keeping it oscillating! In order to check that oscillation was occurring (prior to the frequency being corrected) a meter, 0-1 Ma., was connected in series with the grid leak at its earthy end. However, removing the meter leads and connecting the grid leak to earth caused all other symptoms of oscillation to disappear. Putting an r.f. choke (from an I.F. unit) in series with the grid leak at its "hot" end and by-passing it with a 30 pF. condenser cured that one.

Injection of oscillator voltage into the suppressor grid of the 954 mixer is accomplished by disconnecting the suppressor grid from the chassis, inserting a 47,000 ohm resistor between these points and then connecting a 5 pF. condenser between the suppressor grid and the "hot" end of the oscillator coil. The plate circuit of the mixer tube is treated as described above for 50 Mc., but the cathode resistor is 10,000 ohms and is by-passed with 0.006  $\mu$ F., this value being used because it was the first one to be found in the condenser department. Any good mica condenser whose reactance at the intermediate frequency is

quite low compared with the value of the cathode resistor, should be suitable.

The aural coupling should be as tight as possible and the actual method will depend largely on the type of feed line used. In this instance, a "Lenfo" beam fed with 300 ohm twin lead is used, so the co-ax antenna lead was dispensed with and the 300 ohm lead, brought in through the top cover plate, is connected directly to a three-turn coil wound over the top of the three-turn grid coil. Some further experimental work here may be beneficial.

All coils are of three turns, approx.  $\frac{1}{2}$ " diameter. The cathode tap for the oscillator, which is on the low frequency side of the signal frequency, being at one turn from the "cold" end of the coil. Some adjustments, trimming and certaining of the coils was necessary to line-up and track all circuits, but presented no great difficulties and the hash from a superregen receiver gave a rough alignment; final adjustment of the trimmers being made with the aid of various signals on the band.

At this stage it was noticed that tuning was very sharp and it was necessary to adjust the Type 3 receiver in order to tune signals in at all. In an effort to overcome this, the existing drive arrangement for the tuning slugs was removed and a finely threaded  $\frac{1}{2}$ " diam. rod arranged to drive them. Even though the push rod has been sprung loaded, back lash is still apparent, but it is possible to tune a signal in without adjusting the tuning of the Type 3 receiver. The band is now covered by about 10 or 12 complete revolutions of the tuning knob, compared with about 230 degrees of rotation with the existing drive arrangement.

Results.—Signals which previously were smothered by hash of the superregen, are now audible and, if crystal controlled, quite readable. If from a mod. osc., they may, or may not, be readable depending on the degree of frequency shift under modulation and

(Continued on Page 14)

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# RESULTS OF 1949 VK-ZL DX CONTEST

The results of the VK-ZL DX Contest for 1949 are published herewith and although the number of logs submitted locally was not an adequate indication of the activity, the general feeling was that an extra good time was had by all concerned and mention is made of the fact that some very good work was done particularly on the 1f. end of the spectrum.

## C.W. SECTION

The winner of the Open Section for c.w. operation was ZL1MB with a terrific total of 152,847 points in 81 countries, a truly magnificent effort and our congratulations go to him for his effort.

VK2EO made a welcome re-appearance in this Contest and tops the VK end of the scores by a big margin; other State winners were VK3XX, VK4AP, VK5FH, VK6RU, and VK7KB, congratulations to one and all.

### Open Section

ZL1MB	152847	VK4RC	24912
VK2EO	130248	VK7JB	22032
VK2DG	95460	VK3NDQ	20664
VK2ZC	85840	VK3JI	18083
VK2RA	83148	VK5OU	17346
VK2TF	69135	ZL1AB	11088
VK5FH	62784	VK3PG	9321
VK2JX	62634	VK3ABA	8370
VK3XX	57408	VK5AF	7080
VK6RU	53130	VK3UM	6968
VK7KB	50787	VK5KO	4686
VK3FH	42132	ZL1LW	3180
VK3XQ	38670	VK3IC	2106
ZL1MQ	28778	VK3TX	1008
VK5RX	28204	VK3EG	1005

### 14 Mc. Section

VK2DG easily proved the best on the 14 Mc. band and his entry of 430 QSOs in 74 countries for the Contest period was excellent—total 95,460 points. Conditions on this band were good for most of the time but were marred by intermittent bursts of bad key clicks from leading ZL stations which, aided by fortunate skip effect, were not sufficiently prolonged to involve disqualification. Local stations were not exempt from this by any means and it is about time that some of the consistent offenders in this respect took a look at their own signals.

VK2DG	95460	VK5RX	17115
ZL1MB	80808	VK3NDQ	14312
VK2TF	69135	ZL1MQ	13284
ZL1DV	48216	ZL4BR	11178
VK2ZC	45708	VK4TY	11136
VK7KB	42000	ZL1AB	9360
VK2RA	41748	VK5FM	8502
VK5FH	33462	VK1LJ	7800
VK6DX	28204	VK5OU	7650
VK3XX	23498	VK5AF	7080
VK2JX	22755	ZL1LW	3960
VK2OA	21456	VK3YF	2983
VK7JB	19440	VK2IC	2108
VK3PL	19320	ZL1LW	1848
VK5BO	19320	ZL3CP	1620
VK3JI	18083	VK5KO	1479
VK3YD	17265	VK3TX	1008

### 28 Mc. Section

From a VK point of view the 28 Mc. conditions were good over the first half but fairly poor on the latter end. This

did not seem to disturb VK4AP who netted 18782 points in easy style, thus winning the ten metre c.w. section. There was little activity on the 11 metre band.

VK4AP	18792	VK3XX	1365
VK5AE	16416	VK2RA	1008
VK3NM	9782	ZL1MQ	864
VK3HT	6972	VK7JB	720
VK2AHM	4914	VK2GW	384
ZL1MB	3289	VK7KB	357
VK2JX	3120	VK5OU	231
VK2ZC	2040	ZL1LW	162
VK5KO	1479	ZL3AB	81

### 27 Mc. Section

VK2RA	12
VK2JX	3
VK3EG	3

### 7 Mc. Section

The 7 Mc. band was wide open for the Ham who wanted to take advantage of it with the result that VK2GW, working here (and on 28 Mc.), had by far the best results of any VK-ZL stations and managed 70 QSOs in 18 countries, and this was good going OM. Congrats!

VK2GW	3780	VK5OU	792
VK5KO	1632	VK2ZC	759
VK3XX	1485	ZL1MB	750
ZL4GA	1470	VK3FA	693
VK2RA	1296	ZL1MQ	528
VK2JX	1280	VK4XJ	231

### 3.5 Mc. Section

VK5KO takes the cake for his 80 metre work scoring 96 points with six Europeans and two Ws, and was the only log received. The old reliable VK2RA worked DL1FF on 3.5 Mc., but did not submit it as a log.

Check logs for the c.w. section were received from VK4RF, VK2PV, VK2JQ, VK3ASB, and ZL3GR.

## OVERSEAS C.W. SECTION

The following are the results for overseas stations for the bands and/or open sections for which they were entered.

### 14 Mc. Section

W1RY	4080	OE1AD	1500
W1BIH	1950	OE3CC	870
W1APA	1224	OE5AR	480
W2AIS	3969	OE1KR	144
W3OCU	3090	FA4DA	1458
W3ADZ	1710	VU2ZMA	60
W3KQD	750	DL1FF	3600
W3CGS	480	DL1XS	1188
W3NCF	468	DL1EN	756
W5JD	1210	DL1TS	744
W5PKF	1080	DL1DA	594
W5JF	1080	DL1FI	462
W5JUF	338	DL1EV	135
W6AM	1344	G6XXN	3480
W9AEH	4950	G8KP	1512
W9WEN	936	G5TL	528
W9GDI	1053	GWSSL	3270
W9QLW	63	GM6RRV	420
VE3AMK	408	G14RY	300
ZSSU	504	SM5LL	108
F9BO	1440	SM5TQ	27
F9DW	408	SM3FY	45
F9OL	45	PA0ZL	1134
OE1CD	3000	KP4CC	2220

### 14 Mc. Section

28 Mc. Section	306	ZSSU	1152
W1RY	234	FP9DW	12
W1LZF	60	OE1CD	192
W4EEO	231	OE1AD	72
W5PKF	525	OE3CC	18
WEYC	525	DL1FF	450
W8AEH	945	G8KP	360
W9WEN	12	GW5SL	156

### 7 Mc. Section

7 Mc. Section	108	ZSSU	72
W1RY	108	DL1FF	72
W5PKF	432	DL1FF	96
W8AEH	378		

### 3.5 Mc. Section

3.5 Mc. Section	18	DL1YA	3
Open Section			

W1RY	9720	DL1EI	486
W2AIS	3969	DL1GU	210
W2EMU	1950	DL1FZ	18
W2EQS	513	G5VY	7056
W3ARK	3120	G8KP	3360
W4KVK	5559	GWSSL	5124
W4LZF	2395	G14RY	500
W4CYC	1755	SMSWL	2730
WIDRK	234	SM5QY	1080
W5PKF	5184	SM5IZ	672
W8KRC	3458	PA0GLZ	1132
W8JWD	2130	PA0RL	270
W6AM	1344	PA0QF	224
W8GPB	1131	KP4KD	2730
W8OCA	2820	KP4JE	96
W8DAE	696	OK3AL	690
W8PBM	324	OK2MA	567
W8AEH	16575	OK1KY	504
W9WEN	1190	OK1XQ	210
VE3AMK	408	OK1DL	180
VE3AC5	96	OK1GT	38
VE1CU	63	ON4AZ	1110
ZS5UU	4446	VSIIDZ	5952
F9BO	1440	ILKX	3015
F8TM	630	G8HJ	4920
F9DW	530	CT3AV	48
OE1CD	4872	TF3ZM	18
OE1AD	2262	4X4RE	693
OE3CC	1152	CX3CS	1080
FA8DA	1458	LATY	2970
VU2MA	60	LA2B	600
VP1AA	720	LA6U	483
DL1FF	10512	VO6EP	200
DL1FK	5616	OAAJ	3600
DL1KB	4176	OZ3FL	3600
DL1DX	3285	ZS6BJ	120
DL3DU	1590		

Check logs were received from G3DVM, G3HK, G6CJ, G8PW, G8LN, VP9G, VE3LJ, PA0UV, SM5HH, OK1BM, WIBOD, WIAB, W4PN, W6BVQ, W6NNV, and W8HA.

## PHONE SECTION

Open Section	47616	ZL1MQ	9804
ZL4HP	47616	ZL1MQ	9804
ZL3HC	41760	VK2AMV	4698
VK4KS	38979	VK3LSC	1035
VK4JG	38979	VK3MX	297
VK4KS	38979	VK5KW	5022
VK3IG	26790	ZL1MQ	4500
VK2US	25704	VK2WD	1050
ZL3HC	17820	VK3MX	297
ZL4HP	12969		

	28 Mc. Section	2820
VK5AS	21150	VK6KW
ZL4HP	10875	VK5LC
ZL3HC	4950	ZL1MQ
VK6HL	4536	

### 50 Mc. Section

ZL1MQ was the only station to send in a log for 50 Mc. where he made contact with KH6FP—fine effort—scoring 3 points.

### OVERSEAS PHONE SECTION

Overseas stations have forwarded the following logs.—

	14 Mc.	28 Mc.	Open
PK4KS	108	1458	
PK3WH		1431	
PK3MR			3042
VE3AMK	18		
ZSSDS		30	
PY2CK	1140		
F9BO	483		
DL1FK		1656	
WTKK		163	
W4EEQ		72	
G8XN		1539	
OQ5BA		24	
CX2CO		162	
VS1DZ	1485		
OK1HI		54	
ON4AZ	12		

### RECEIVING SECTION

#### Phone and C.W.

In both the number of local and overseas entrants there would seem to be a marked lack of entries. So small in fact that there is doubt that this section is worth persevering with.

#### VK-ZL Section

BERS195, Eric Trebilcock, 184 Osborne Street, Williamstown, W.I.B., Victoria	137808
M. Phillips, Box 33 Warkworth, North Auckland, N.Z.	5460
F. H. Price, 74 Cleaver St., West Perth	3468
A. Moore, 18 Bourne St., New Farm, Brisbane	606

#### Overseas Section

OE-196, Richard Payer, P.O. Box Knittelfeld, Austria (QRA as from entry)	2304
OE-959	2084
OE-323	848
OE-314	672
DEM-1687	2683
HBRSE	66
OK1-1647	465
BRS15822	3888
G. Hoffmann, Frankfurt-Hoechst, Emmerich Josef Str., Germany	6783

### OUR FRONT COVER

Pictured on the front cover is the new transmitter at VK3WI. The background is provided by a photograph of 2CM's transmitter of 25 years ago.

The new VK3WI transmitter as pictured consists of the two lower panels are the main 1,200 volt h.t. supply with the voltmeter in the centre of the top panel. The next panel is the 600 volt minor h.t. supply, bias and filament supply.

The fourth panel contains the relay switching with the control buttons for local control of the transmitter. In the centre of the panel is the minor h.t. voltmeter with the meter switches on either side.

Panels 5, 6, 7, and 8 are the separate finals for each band, the 80 metre final being number 5.

The v.f.o. output feeds via a co-ax line on 3.5 Mc. to an 807 amplifier which drives a pair of 834s in push pull on 80 metres.

When the control panel switch is thrown to 7 Mc., the r.f. from the 3.5 Mc. 807 is directed to the panel above where it is fed into an 807 doubler which in turn feeds a pair of 834s on that band. The same principle is used for the successively higher bands, 14 and 28 Mc.

From the operating desk, band changing is accomplished by simply throwing the appropriate toggle switch for the band required.

This photograph is, of course, only the r.f. section of the complete VK3WI, the audio equipment being housed in a smaller rack.

Unfortunately we were unable to obtain, in time, a description of Charles MacLurcan's (2CM) transmitter, no doubt that will be forthcoming for a future issue.

The Victorian Division wish to express their appreciation to Philips Electrical Industries of Australia Pty. Ltd. for their generous gesture in allowing use of their space on the front cover.

## 14th B.E.R.U. CONTESTS, 1951

Dates.—Phone: 1700 G.M.T. February 3 to 1700 G.M.T. February 4, 1951. C.W.: 1700 G.M.T. February 24 to 1700 G.M.T. February 25, and 1700 G.M.T. March 3 to 1700 G.M.T. March 4, 1951. Phone and C.W. have Senior (full licensed power); C.W. also has Junior (25 watts maximum).

Band.—Phone: 14 and 28 Mc. only; a.m. or n.m. as permitted. C.W.: 3.5, 7, 14, and 28 Mc.; T9 only.

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Call.—"CQ BERU" and work Commonwealth Stations. Exchange five- or six-figure serials: RST or RS plus three figure number starting between 001 and 400, and increasing by one each QSO.

Scoring.—Commonwealth is divided into 28 zones as below. Fifteen points for first QSO each zone, fourteen for second, thirteen for third, etc., and one point for fifteenth and further QSOs. Scoring system repeats for each zone and for each band. No QSO with own zone.

Entries.—In form shown appended, with declaration (on sheet 1) and zone score analysis (sheet 2). Paper size, Quarto (8 x 10) or Foolscap (8 x 13). Logs in time order.

Post to R.S.G.B., New Ruskin House, Little Russell Street, London, W.C.1, not later than February 12 (phone), or March 12 (c.w.) to be received by June 4, 1951.

#### Zones:—

- 1—AP, VUS, 4, 5, VST.
- 2—G, QC, GD, GR, GM, GW.
- 3—L, ZL, MBP.
- 4—BD, MF, MS, MT, ZB.
- 5—MS, BT.
- 6—VE1, Z.
- 7—VE3.
- 8—VE7.
- 9—VE5, 3, 6.
- 10—VK2, 3.
- 11—VK4, 7.
- 12—VKS, 6.
- 13—VKA, VHA.
- 14—VO.
- 15—VP1, 3, 5, 7, 9.
- 16—VP2, 4, 6.
- 17—VP8, VK1.
- 18—VQ1, 4, 5, ZD6.
- 19—VQ2, ZL.
- 20—VQ8, 9, ZC2.
- 21—VQ1, 2, 3, 5, 6, ZK, ZM.
- 22—VQ2, 2, 4, 5.
- 23—VQ3, 3.
- 24—VQ5, MP4.
- 25—ZD1, 2, 3, 4, 7, 8, 9.
- 26—ZL.
- 27—ZS1, 2, 3.
- 28—ZS4, 3.

All logs will be acknowledged on receipt. Check logs however small will be gratefully received.

#### ENTRY, SHEET 1—

B.E.R.U. Contest 1951 Section  
Name (block letters)..... Call  
Input power to final stage Watts  
Aerial Systems  
(Other station details may be given.)

Declaration.—I hereby certify that my station was operated strictly in accordance with the rules and spirit of this Contest, and I agree that the decision of the Council of the R.S.G.B. shall be final in all cases of dispute.

Date ..... Signed .....

Also, if not a member of R.S.G.B.—I hereby certify that at the time of the

Contest I was a fully paid-up member of .....

Date ..... Signed .....

#### ENTRY, SHEET 2— Zone Analysis of Score

Zone	... Mc.	... Mc.	... Mc.
Contests	Points	Contests	Points
1—AP, VUS, 4, 5, VST.			
2—Great Britain .....			
3—DLS, MPB .....			
4—			
Totals .....			

#### Log Sheets

Date	G.M.T.	Band	Call	Serial No.	Pts.	(Leave)
		Wkd.	Wkd.	Sent	Recvd.	

# TIME MARCHES ON

This, the 25th Anniversary of incorporation of the W.I.A. in Victoria, marks another milestone in its history—but let us not forget "Old Timers" whose efforts 25 and more years ago laid the foundation of the present-day Wireless Institute of Australia, Victorian Division.

It was hoped to be able to give you a complete history of the W.I.A. over this period, but unfortunately many records cannot be found, consequently we have had to rely on information gleamed from those "Old Timers" who are still available. This article will tell, as far as possible the events leading up to, and those Amateurs who took part in the incorporation of the Institute.

Unfortunately, many of those who took part in this great work have "passed on" but their work lives on.

As early as 1900, individual members of our Melbourne community had been laboriously carrying out experiments to disclose fundamental knowledge of the new science. Prominent in those days were Mr. Jenvey who made the first wireless tests with the S.S. "Ophir" when King George V., then Duke of York, visited Australia in 1901.

By 1908 quite a few were working with spark coils as the means of transmitting a signal and with coherers as the means of receiving it. The latter was usually constructed from glass tube, silver rod and filings from a threepenny piece. On reception of the signal the filings cohered, at the same time indi-

cating this fact by a suitable electric sign at the receiving station. An electric bell was usually pressed into service to give the coherer the necessary jar to decohere the filings and make them ready to receive another signal. Reception of each dash or dot involved that whole cycle of operations and placed real limitations on speed of reception. Brass rods—usually curtain rods—formed the basis of much of the apparatus to transmit and to receive radio waves more effectively.

By 1909 crystal detectors appeared instead of coherers. These were of galena or of iron pyrites and many were the favoured methods to get the best results from them—leading to the "cat's whisker" days still outstanding in the memory of anyone connected with radio. A list of names of Amateurs in those days would include Bill Jenvey, Alf Avard, Chas Whitelaw and Stan Hosken.

The next two years were very important to Amateurs for 1910 was marked by an unfortunate incident in the United States where signals from a ship in distress were jammed by an Amateur there. This affected the standing of Amateurs all over the world. However, in 1911, whilst the fight for existence was still on, another experimenter in the United States was the means of saving life at sea. He heard a ship's distress signal and was in fact the only one to do so—which re-established in some part the standing of Amateur Radio.

These years saw the formation of the Wireless Institute of Victoria. The driving force in Melbourne was Walter King Witt. A booklet, dated 1914 (a copy of which is held in the Melbourne Public Library) stated in its Preface that:

"This publication, the first of its kind for Australia, has been compiled from official and other authentic sources in order to fill a long felt want by wireless experimenters, and also to show the public to what extent has been the growth of wireless in Australia during the past three years. It is issued with the hope that it may promote both study and experiment in this most useful branch of science."

The booklet published by the Wireless Institute of Victoria listed office-bearers as under:

President: Vernon Cole, Esq.  
Vice-Presidents: W. King Witt, Esq.  
F. F. O'Shannessy, Esq.  
Council: Douglas Harrison, Esq., Herman Lindow, Esq., John Strickland, Esq., W. Ednacott, Esq.  
Hon. Corresponding Secretary: C. R. Dodson, Esq.  
Hon. Organizing Secretary: John Welch, Esq.  
Hon. Treasurer: Angus McGregor, Esq.

Victorian Amateurs, under X call signs, numbered 193, with approximately a similar number for New South Wales, and a few in each of the other States.

Outbreak of the First World War gave Institute members an opportunity of showing the value of their training as Amateurs. Their technical knowledge

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### ENGLISH and AUSTRALIAN . . .

Australian Radio World, 16/-; Amateur Radio, 9/-; Electronic Engineering, £1/12/6; Radio and Hobbies, 12/-; Shortwave Magazine, £1/7/6; Wireless World, £1/12/6; Wireless Engineer, £2.

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was far above the average marine operator (of the time) and after a brief course in code, these men were passed into transports and other vessels in war work.

Return to the peace of 1920 brought severe opposition by the Navy to the re-establishment of the Amateur here. With a supporter in W. M. Hughes, Amateurs at last managed to convince Commander Creswell on the point. Licences were again issued, but at first were for receiving only. A fee of £2 was charged. This, however, was not without its compensations for it made Amateurs here concentrate thoroughly on the art of reception.

Subsequently, control passed from the Navy to the P.M.G.'s. Department under whom Amateur Radio progressed remarkably well. The name of J. Malone, of the Department, must be mentioned here as a staunch supporter of the Amateur cause in these days. Active in reforming the Institute in those early post-war years was Victor Nightingall, also supported by W. Conroy as Secretary. H. K. Love at that time asserted in arguments for the Amateur cause that they were fully qualified and could, with encouragement, be equipped to give and receive overseas signals—a statement which was subject to a great deal of ridicule from some. However, a committee was appointed to prosecute the idea. It consisted of H. K. Love as chairman, Max Howden, Ross Hull, E. K. Cox, with C. H. Philpott as Secretary. These communicated with the American Radio Amateur organization and a test was arranged for May 1923.

Publications setting forth Amateur Radio activities in Australia included the "Radio Experimenter"—the official organ of the Wireless Institute of Australia, and also of the Royal Australian Air Force Wireless Reserve. From these journals and from the daily press of the time, one reads of achievements of Amateurs in Victoria in that post-war period. To view Amateur Radio achievements in the right perspective, one should remember that much of the work was done on wave lengths discarded by commercial radio as of no value.

To return to the test arranged for May, 1923, a report by H. K. Love in "Radio Experimenter" told of organised listening watches all over Australia for the Americans. Many stations heard weak c.w., but no stations were logged. Then came May 10 when Ross Hull, 3JU, between 6.30 and 7.40 heard 6CGW calling TJ. On May 17, word perfect messages were received from 6JD and 6KA, 8,000 miles away. Names of Victorian Amateurs in the news in those years have a familiar ring today—3SW, S. Gadsden; 3GB, M. A. Glover; 3BQ, Max Howden, E. H. Cox, 3BD. With these one must mention the New South Wales Amateurs, 2CM, Charles MacLurcan, and P. S. Nolan, 2YL. The four last mentioned were heard in England in 1925 by numerous stations working over the long path and using wave-lengths of 35 to 36 metres. Reception was reported excellent.

#### FIRST OVERSEAS CONTACT

In 1924, Max Howden, the first Australian Amateur to communicate with England and with America by Morse

code, conducted a test with Mr. Simmonds, 2OD, of Gerrards Cross, London. This included a test with speech, but unfortunately it was spoilt because trouble with equipment intervened. However, Max Howden later distinguished himself as the first Australian to speak to England by radio—an achievement by an Amateur, before commercial radio entered the field.

It was in this very active period that the Wireless Institute of Australia held its first Convention. Its President in 1924 was H. K. Love; Vice-Presidents, Ross A. Hull and Max Howden; Hon. Secretary, T. P. Court; Organising Secretary, B. J. Masters; General Treasurer, C. Short. Affiliated clubs numbered 23, including those at Ballarat and Bendigo. Its meeting place was first at the rooms of Amalgamated Wireless of Australia. Later, meeting place changed to rooms in The Arcade, Prahran. Originally inhabited by pigeons for many years, the rooms were made shipshape by the boys who built their own furniture, cupboards and erected their masts complete with 12 feet spreaders. This antenna system was the sight of the town. Subsequently, a move was made to Kelvin Hall, Collins Place, Melbourne.

In 1924 the Victorian Division of the Wireless Institute held an exhibition of equipment, together with trade exhibits in the Melbourne Town Hall.

1925 was a significant year—a year of development. It was fitting that a great wireless exhibition was held in May of that year at Wirth's Olympia, Melbourne. Jermyn B. Masters, on whose shoulders rested most of the organising of the exhibition, was a prominent member of the Institute whose President at the time was the late H. K. Love. The prize for best complete station was awarded to W. Gadsden, second prize to M. Chaffer. Kew Club won the prize in the club section. No doubt that equipment was liberally strewn with pancake coils, spiderweb coils, home-made grid leads and with the new triode valve—articles on the four electrode valve appeared in 1924. One should mention in passing the name of F. H. McElroy, Doyen of the Retail Wireless trade in Victoria and a familiar name of Amateurs seeking material to build their own equipment in those days.

Clubs were numerous in those days. Geelong Radio Club distinguished itself by giving the first complete radio religious service in Australia. It was transmitted by the club from the Newtown Church. Records state that the rectifier used one dozen aspro bottles with aluminium and lead strips. Hawthorn, Prahran, Malvern, East Kew, St. Kilda were each represented by radio clubs of the period. It is in that year, also, we read in the daily press signs of things to come—"Amateurs opposed to wave length restrictions." In that year was held the Federal Conference of the Wireless Institute reported in the "Argus" on September 18. Mention of pirates is found in the news, also fading investigations and day and night effects. One must not let the year pass without listing Charles Whitelaw's transmission from Benalla to Pennsylvania more Amateurs speak to England and to Holland. In that year also were

references to a seemingly incredible fact—that stronger signals were heard at greater distances and so began the piecing together of an interesting story, the results of which many take in a very matter of fact way today.

Whilst 1925 was regarded as a year of development, for much occurred in that year in technical progress, that year also marked the incorporation of the Victorian Division of the Wireless Institute of Australia as a trading body. This step calls to mind the name of J. Malone, at the time Chief Manager Telegraphs and Wireless in the Postmaster General's Department, and respected among Amateurs for his helpfulness and tolerance.

"Radio Experimenter" of that period records a letter from Mr. Malone advising Amateurs to "put their house in order"—advice which led to the incorporation of the Victorian Division of the Wireless Institute—the twenty-fifth anniversary of which we celebrate this year.

#### EDITORIAL

(Continued from Page 1)

Secondly, Amateur Radio provides a reservoir of trained personnel for defence purposes, and this must weigh heavily in the scales. These important factors should be sufficient to stimulate each Amateur to maintain his station in such a condition that he can put a satisfactory signal on the air in an emergency, despite continual alterations to equipment.

Thirdly, Amateur Radio has reason to be pleased with its contribution in radio research by pioneering short wave communication and in developing new techniques—antenna systems, selectivity devices, instruments and the like. There is every indication that it will continue to make similar contributions in the future.

But there is another aspect which brings us before the public eye more than these. Do we realise what a wonderfully powerful means we have in our hands to promote friendship and understanding between peoples—not only between different States of our Commonwealth and we need that most certainly—but also between people of other lands? But with that power goes a great responsibility—a responsibility to represent our own folk truly and well to other groups about the world. This to me seems to be the greatest task we have as Amateurs, and it is according to the extent to which we measure up to the standards by which others judge our conduct on the air that the future of Amateur Radio will depend.

In the 25 years of Amateur Radio, marked by this number, we have much to be proud of. What can we make of the next 25 years to ensure that we justify and strengthen the confidence of the authorities which we at present enjoy? Victorian Division, in sharing in the pleasures of twenty-five years of achievement, likewise must share in that responsibility.

G. S. C. SEMMENS (VK3GS),  
President, Victorian Division, W.I.A.

# Western N.S.W. Amateur Emergency Activity

N.S.W. Amateurs during the last 18 months have been active in many emergencies when flooding in many parts of the State caused loss of life and tremendous damage. Due to the abnormal rains and the resultant saturated ground, run off is practically complete and rivers are still rising very rapidly after rain.

With the summer approaching the position should improve, but during late October the Lachlan River was again flooded and Radio Amateurs in the valley were active assisting to maintain communications in the area.

It was evident by Saturday, 21st October, following heavy rain, that a major flood would occur along the Lachlan. Accordingly Jim Corbin, VK2YC, was requested to contact the authorities and inform them that Amateurs in the Forbes district would be requesting permission to handle emergency traffic within the next 24 hours. The next day with flood waters rising, 300 subscribers to the Forbes telephony exchange had lost communication and the main business portion of the town, the District Hospital and the Police Inspector were out of contact.

After an emergency call, official P.M.G. station VNS was contacted on 7 Mc., and permission was granted to handle urgent telephone messages within the Forbes area. Local Amateurs were fully equipped with battery operated equipment as the switch gear in the local sub-station was under water, and a temporary one installed, it was considered that a power failure was imminent.

By this stage, Forbes was cut into three "islands" with Bill Kennedy, VK2BT, operating from one, Jim Carr, VK2JV, from the second—the town itself, where he had a runner to the P.O., John Meagher, VK2AMV, from the third, and Hugh Stitt, VK2WH, from outside the town area; all stations handling urgent traffic as required.

The Amateurs were advised that Army "Ducks" had been dispatched for relief in the area and as they had required assistance in the April floods, a continuous watch was manned on the Army frequency of 3380 Kc. They arrived in the small hours and Amateur

assistance was requested. The following morning, 23rd October, VK2AMV obtained permission from VK2AA, P.M.G. station, to co-operate with the Army, and from that date onwards until the departure of the "Ducks" on 28th October, Amateurs were continuously operating on 3380 Kc.

The Hams relayed messages where required and forwarded daily reports to Army H.Q. in Sydney. Later when the "Ducks" were in the Warren area, VK2WH again contacted them and passed further messages to Sydney.

Bands used by the Amateurs during the operation were 3.5, 7, 14 and 50 Mc., plus the Army frequency. Conditions

experienced during the period were extremely poor, influenced no doubt by the Aurora disturbance at the time. C.W. proved a blessing and with it quite a percentage of the traffic could not have been handled.

Amateurs who operated in the Forbes area extend their thanks to the many Amateurs in the State who assisted checking transmissions and band conditions, also the P.M.G. Department for the rapid permission given for operations and the help given by officials.

These floods were the worst experienced in the history of the valley and the Forbes "Advocate" praised the work of the Radio Amateur.

• It might happen to you so be prepared.

To The Victorian Division of The Wireless Institute of Australia, we extend our Congratulations on the occasion of the 25th Anniversary of its Inauguration.

To Members of the Wireless Institute and to Amateurs everywhere, we extend Hearty Seasonal Greetings.



WE THANK ALL READERS OF THIS MAGAZINE FOR THEIR CO-OPERATION THROUGHOUT THE YEAR AND TRUST THAT WE MAY HAVE THE PRIVILEGE OF SUPPLYING THEM, DURING 1951, THE HIGH QUALITY COMPONENTS OF—

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## SUBSCRIPTIONS

• Please pay your Subscriptions PROMPTLY when due. Failure to do so may result in the loss of valuable issues of "Amateur Radio." High costs of production make it necessary to limit the number of extra copies printed each month.

# DX NOTES BY VK4QL

October produced an even thicker "Ion Curtain" than the previous month. Hard listening to hear the weak signals which did get through was a necessity.

All bands were effected, and to make matters worse, the noise level from static on 3.5 and 7 Mc prevented listening or operating on those bands for days on end. One notable thing on 14 Mc. was the big changes that took place over a period of 24 hours, and an even bigger change in a week. For example, one week Europe came through until 5.30 p.m. The following week they were non-existent. 28 Mc. showed the same erratic behaviour. Plenty of Asians one night, the next, nil stocks. Europe has been non-existent on 14 Mc. round 8-7 a.m., but North and Central America, with the odd North African, were heard. One morning on a dead band, CR5AC was QSOed at 6.30 a.m. with S7 at both ends. He was just as surprised as I was at the strange conditions. FFJJC was again heard in the same circumstances.

Southern stations seemed to do reasonably well in the VK-ZL Contest, but it was not easy work. ZL1MB did not seem to be "bowling them over" with his usual ease.

PIBK was QSOed this month. Our QSO was his first on the air and he was going through the usual "jitters" we all go through, but he was not helped by the impatient VKs who kept jamming the QSO. All that I could get as far as

QTH is concerned is: "I am a French soldier in Indo-China, and will write you." He was not heard after the QSO, so probably went for a "quickie" to recover his composure.

The last week-end of the month produced a "black out" on 14 Mc. ZLs blocked the receiver, but the rest of the signals were very weak and were Oceanic only. The band remained dead on Sunday, except for a brief period round 4.30 p.m. to 5.30 p.m., when some very weak DX got through. Since then the noise level has been extremely high, even on 14 Mc. 7 Mc. has been useless, even the VKs being weak and a "hollow" effect on the signal.

I am indebted to 5JE for dope on 7 Mc. in Adelaide. He mainly operates this band, but the band fell away as the month progressed. However, HC2IH showed up on the band one night and by hooking him, 5JE completed his 7 Mc. W.A.C. Strange, but true, he worked FABBG at 4.30 p.m. on the last Sunday of the DX Contest. Contacts were made with VS7 and Europe also, so Adelaide produced a W.A.C. in the month for SJE. He says very good signals came from the States between 5.30 and 7 p.m., then they faded out until 9 p.m., when they returned for a period of an hour. Nothing like that up here. I could not work or hear the South Africans the same as last month. Many thanks Ted. What about somebody else giving me some news, eh?

Listings for the month are not too bad, despite the poor conditions. They are: 28 Mc.-EQ3FM, XX2EM, ZC6JM, KJ6AL, HS1SS; 14 Mc.-CR5AC (Box 38, Biscay, Portuguese Guinea), FO8AD, IS1AHK, HZ1KE, PK7NL, "3V8BD", VQ8CB, VP2FJ, VP6OTT (QSL via the R.S.G.E.), LA2Z, ZB2I, HR1DF (Comayagua, Honduras), KS4AA, FK5SAR (Vienna, Austria), ET9X (QSL via the A.R.R.L.), UF8AC, UF8AP, 4X4BR, 4X4CL, 3A2AB, FFJJC, FIBBK, ETGAC, AC4RM. The last named caused quite some consternation on the band the night he appeared. As was expected, everything but the kitchen sink appeared on the band. A VK3 got the honor. He was being pressed for his QTH when "foney" was transmitted by another VK3, adding that his signal was coming from the South. The signal from AC4RM was quite strong here, but having no beam, I could not check. Anyhow there was a smart exit from the band of the AC4.

QSLs received were CSMY, Formosa; VQ8CB, KV4AU, VR1C, ZB2I, VP6SJ, SP1SJ, UL7AB, YO3GH, YU3FLA.

Trev, 2NS, is bemoaning the fact he cannot get a QSL from VP2, EA8 and AR8, but is still hoping. I am still trying to get a QSL from FO8AC for VK2, VK3 and VK4 contacts.

The Propagation Bulletin for December does not give much hope for good hunting on 14 Mc., but 28 Mc. and 7 Mc. should be better than the month of November.

\* The thought for the month: "Populate or perish." Use the lower frequency bands more, otherwise we will lose them. They are better for cross town chatter than 14 Mc. anyhow.

## IONOSPHERIC PREDICTIONS FOR THE AMATEUR BANDS

DECEMBER, 1950

Nine of the charts, prefixed by the letter "C" for Canberra, refer to forecasts for the South-Eastern Australian States. The remainder, prefixed by the letter "P" for Perth, are for Western Australia.

The Canberra charts refer to the following world zones:-

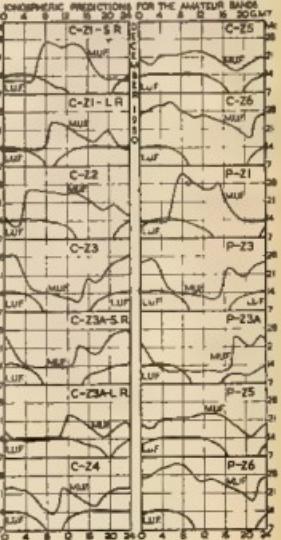
Zone	Region	Terminal
1	Western Europe	London
2	Mediterranean	Cairo
3	N.-West America	San Francisco
3a	N.-East America	New York
4	Central America	Barbados
5	South Africa	Johannesburg
6	Far East	Manila
		The Perth charts are similar to those based on Canberra.

### QUIZ

The Prediction Service welcomes comments on the accuracy of its predictions. In particular, answers to the following questions on the Canberra-San Francisco circuit would be useful:-

1. Were good conditions experienced on 7 Mc. for the period 1000 to 2000 hours G.M.T.?
2. Was the 14 Mc. band workable from 0600 to midnight G.M.T.?
3. Was the 28 Mc. band workable from 0200 to 0800 hours G.M.T.?

Answers to the Quiz should be sent to the W.I.A. and should, if possible, refer to consistent results obtained on the majority of days in the months.



### DX C.C. LISTING

#### ENRME

Call	No. Ctrs.	Call	No. Ctrs.
VK3EE	1	148 VK4LP	8 124
VK3EE	10	VK3AWW	14 106
VK3EE	3	VK4WJ	17 104
VK3EE	4	VESADT	15 102
VK3EE	5	VESADT	15 102
VK3EE	6	VKAWF	10 102
VK3LN	11	VK3GG	18 106
VK3RN	13	VK3IO	8 100
VK4KK	9	VKESE	1 100

#### CW

Call	No. Ctrs.	Call	No. Ctrs.
VK3EE	1	VKELE	12 118
VK3EE	2	VKELE	87 108
VK3CN	1	VKEAO	17 107
VK4EE	10	VKEGW	10 107
VK3EE	15	VESVD	27 105
VK3EE	5	VESVD	25 105
VK3EW	4	VKEOW	33 105
VK3KB	10	VKEFH	31 105
VK3SA	88	VKEJI	85 104
VK3EE	1	VKEJP	20 104
VK3EP	11	VKEJP	14 104
VK3RU	18	VKEKP	19 101
VK3EN	3	VKECX	25 101
VK3RN	23	VKEOA	32 101
VK3LN	12	VKEHK	22 100
VK3DA	7	VKEJL	14 100
VK4DD	10	VKEJL	14 100

#### OPEN

Call	No. Ctrs.	Lm.	No. Ctrs.
VK3EE	4	VKEFL	26 116
VK3RU	8	VKEAT	14 113
VK3EE	1	VKEFO	84 110
VK3HR	1	VKEFO	84 110
VK3EP	5	VKEFO	32 108
VK3HG	5	VKEFW	40 108
VK3RW	17	VKEGO	53 106
VK3DI	2	VKEYL	11 106
VK3EE	15	VKEHM	30 106
VK3EL	15	VKEHM	32 105
VK3AD	13	VKEHN	38 105
VK3RN	5	VKEHN	38 104
VK3EP	24	VKEUL	37 104
VK3EP	18	VKEUL	37 103
VK3DP	9	VKEUL	31 103
VK3ADE	28	VKEUL	37 103
VK3AJA	9	VKEAO	38 103
VK3LN	29	VKEAO	31 103
VK3NS	16	VKEAO	35 103
VK3EP	28	VKEAO	36 100
VK3EP	28	VKEAO	39 100
VKEEL	28	VKEAO	39 100

## ZB2 HOMING ADAPTOR

(Continued from Page 7)

the consequent distortion due to the sharpness of the Type 3 receiver. Noise level is quite low, so low in fact that it is a cause for doubt that the converter is working as well as it could be. Stability of the oscillator leaves quite a lot to be desired and the use of a selective receiver means that these faults become readily apparent. When operating the ZB2 from the Type 3 power supply, the note from the 955 oscillator is about T4-5. R.F. chokes in the heater leads make no difference, but operating it from a separate power supply causes the note to improve to T6-7. Unfortunately, the design of the ZB2 does not allow much scope for experimentation here and so far no further improvement in the note has been possible, though the same tube in a series fed Hartley oscillator does produce a good clean note.

There is a continuous drift in frequency for 15 minutes or so after switch-

ing on and in addition every slight fluctuation in voltage causes the frequency to move. These effects may be overcome by the use of temperature co-efficient condensers and voltage regulator tubes, but to date these have not been tried. As it stands, it has achieved its main purpose—a more effective portable receiver than the superregen. detector.

Since writing the above, the output frequency of the mixer has been altered from 9.7 Mc. to 7 Mc. with a consequent increase in strength of both signals and noise. This confirms that the middle range of the Type 3 Receiver now in use has greater sensitivity than the highest range, and also serves to indicate the desirability of using a highly sensitive receiver in conjunction with the ZB2.

### CHANGE OF ADDRESS

W.I.A. members are requested to promptly notify any change of address to their Divisional Secretary, not direct to "Amateur Radio."



The Magazine Committee extends to all members, readers and advertisers a very Happy Xmas and a Bright New Year.

## U.C.C. MOVE TO NEW BIGGER PREMISES

Moving an entire factory in three days without serious loss of production calls for first-class organisation. It has been achieved by United Capacitor Co. Pty. Limited.

The Company began on midday Friday, October 20, the move to its own modern factory premises situated at 433 Punchbowl Road, Enfield (LF 3511). The following Monday morning production re-commenced on a worthwhile scale.

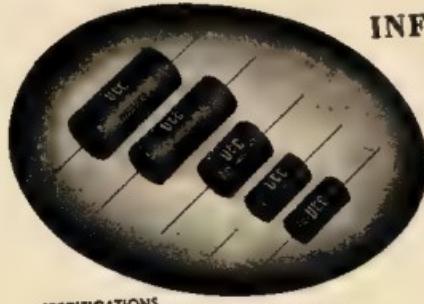
The step is an indication of the progress which U.C.C. has made—progress which is very commendable in view of the Company having been formed just a little over twelve months ago by Tecnic Limited in conjunction with several overseas capacitor manufacturing companies.

Interviewed about the move, Mr. R. V. Bridekirk, Director of United Capacitor Co. Pty. Limited and of Tecnic Limited, dealt with the benefits which the new U.C.C. factory should bring to the radio, electrical, and electronic fields.

"This is an important step in the Company's plan to give the trade an even greater volume and range of capacitors," said Mr. Bridekirk. "The new premises will accommodate special machinery expected shortly from overseas, some of which will produce types of capacitors not previously made in this country. New techniques and processes are being introduced in the extra space now available," added Mr. Bridekirk.

# UCC TUBULAR CAPACITORS

## INFORMATION BULLETIN



### SPECIFICATIONS

- Flash Test—4 times rated working voltage.
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- Above 31 mfd.  $\pm$  20%.

U.C.C. wax-moulded paper tubular capacitors have very stable characteristics and conservative voltage ratings. They are moulded in high-melting-point synthetic wax designed for minimum moisture penetration. The capacitors are made from aluminium foil for low power factor. Extended life tests show little reduction in insulation resistance when operated at 140° F. at 95% relative humidity.

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# Abstracts from Overseas Magazines

"RADIO AND TELEVISION NEWS," JUNE, 1950

P. 40 "A Portable 40 Metre Station;" H. C. Gold, W1KWD—Regenerative receiver, two stage transmitter fed from dry batteries.

P. 42 "A 300-Watt RF Amplifier for the Ham;" H. D. Hinman, W3KPA

P. 45 "Ham TV Station, Part II;" R. Popkin-Chapman, W1LNP—Flying spot amateur pick up amplifier, blanking and sound circuits.

P. 46 "Mobile Antenna for 76 Metres;" W. Jones, W3WDO—Double ended whip, feed unit for mounting it exactly.

P. 46 "New Applications for Crystal Diodes;" Germanium rectifiers used for V.F.O. to peak voltmeter rectifiers (H). Diode modulator for signal generator; (v) Crystal detector attenuator. (iv) V.F.O. for 3 volt supply. (v) Relaxation oscillator.

P. 47 "Ten to 1 Mu. Multivibrator;" O. Dexler—Dual range multivibrator (10 Mc or 1 Mc) locked to 100 Mc crystal.

"CQ," JUNE, 1950

P. II "The Latest Techniques for the Elimination of Ham TVs;" P. S. Hand, W1DRM

P. 15 "A Flex-Powered VFO Rig for 10 Meters Mobile Operation;" G. C. Taylor, W6THL—5AQS VFO on 14 Mc; 6CA4 doubler, 6AQ5 final, 8AQ5 modulator.

P. 17 "The Air Force Interest in Sporadic E Ionization;" N. C. Gersten—Contains interesting series of maps showing the appearance, growth and drift of a number of sporadic E "clouds."

P. 17 "How to Make a Ham-Pete;" T. Niehusen, W6CKH—An effective "compensated" antenna for the low frequency bands.

P. 24 "A Flexible 150 Watt Transmitter;" G. K. Root, W6DPO—5AN7 VCO, 6PE6, 6PE6 modulator, 6V6 buffer, 6A6 final, 6AQ5 modulator, 6PE6 final.

P. 24 "Modifying the BC459 for TVI-Free 40 Meter Operation;" H. S. Brier, W6TIIQ—Good hints on converting a Command transmitter for Amatuer use. Improved keying, parasitic debugging and harmonic suppression.

"QST," JULY, 1950

P. 21 "An Accessory for CW Reception;" G. Grammer, W1DFP—An audio limiter for saving the earphones.

P. 24 "All-Drive Arrays;" W. M. Andrew, W5AMN—For those who like to have automatic beam selection, this should be just the thing.

P. 24 "An All-Band Crystal-Controlled Exciter;" L. A. Langford, W6DTQ—BA67 oscillator, 614 buffer/doubler.

P. 25 "Basic Operating Procedures;" B. Goodman, W1DX—Part I—Radio Telegraphy—Everyone can profit by reading this.

P. 28 "Technical Topics: How to Visualize a Phase Signal;"—Sugar coated discussion on sidebands, modulation, R.F.C. and other similar topics.

P. 31 "Radiator Length and the Gamma Match;"—Points out that the antenna which can only receive low a.w.r. if the antenna is tuned to resonance. It appears that the Gamma match is now reactive, i.e., the usual formula for element lengths apply.

P. 34 "Circuit Design for Link-Coupled Circuits;" N. A. Johnson—Simple method for determining proper circuit constants.

P. 35 "More Effective Beam Amplification;" W. T. Swafford, W5HGU—Shaped frequency response plus a.c. compression.

P. 36 "Miles and Kinks;" (i) Combined class AB2 and AB3 power amplifiers; (ii) Beam peaking; (iii) Crystal calibrator and r.f. indicator; (iv) Bandspread for the VFO655. (v) Tapping small coils. (vi) Improved keying for the GP12 transmitter. (vii) Home-built air dielectric coaxial lines.

"QO," JULY, 1950

P. 18 "The Low Frequency Disease;" M. Seybold, W1RZY—Diacross antenna cut for 12 Mc. Give 500 watch to 50 ohm co-ax feed from 11 to over 500.

P. 23 "Under-the-Dash Mobile Transmitter for 75 Meters Phone Operation;" O. M. Lowery, W4MMR—6C4 Pierce oscillator, 6AQ5 r.f. final, 604 speech amplifier, 6AQ5 modulator.

P. 25 "Increasing the Versatility of the Collins 32V Transmitter;" W. L. Orr, W5SAL

P. 25 "A Modulator for the Medium-Power Transmitter;" M. P. Johnson—40 watts of audio from class B 24G's.

"RADIO AND TELEVISION NEWS," JULY, 1950

P. 28 "Oscilloscope for P.F.T." G. Dexter—Mode selection indicator using 5RP1 without any amplifiers.

P. 48 "A V.T.V.M. for A.C.-D.C.-R.F." E. W. Turner, K5AJL—Battery operated using 104 voltmeter tube and 1A5 diode rectifier.

P. 48 "Simplified Ham TV Station," Part 3; J. Popkin-Chapman, W1LNP—Described modulator,

crystal controlled 420 Mc. transmitter, power supply and receiver.

P. 52 "The 'Sumodget' Transmitter;" M. E. Lowe, W3VNP—Super-modulation transmitter using two 813s in final.

P. 57 "An Inexpensive Grid Dip Oscillator;" W. Y. Yuenger, W6IKR—Covers 1-64 Mc. with plug-in encapsulated coils. Uses electron eye scale as indicator.

"QST," AUGUST, 1950

P. 11 "Better Results on 420 Mc;" E. P. Tilton, W1HQD—Receiver and transmitter ideas for the u.h.f. experimenter.

P. 14 "Basic Operating Procedures;" E. P. Tilson, W1HQD—Part II—Radio Telegraphy.

P. 15 "Mobile 70 Meter Mobile Antenna;" C. Ball, W2AJS—Inductive loading coil in centre of f.t. whip.

P. 24 "A Two-Control V.F.O. Rig with Bandpass Exciter, Part I;" C. V. Chambers, W1JFQ—120 meter bandswitched, 1000 watts, 1000 watts. Many ideas for those who like to QSY and jump bands with the minimum of effort.

P. 30 "A Two-Tube Crystal Controlled Converter for 20 Meters;" C. L. Faulkner, W6PTF—A 6AK5 converter for 20 meters, 1000 watts. (i) A mobile converter for 144 Mc.; (ii) 8A7, Rand, W1DRM—6AK5 r.f., 8J1 mixer-oscillator.

P. 45 "Hints and Kinks;" (i) Adapting the co-ax s.w.r. meter for 300 ohm twin lead. (ii) Audio filter design using home-made inductors from salvaged medical gear.

P. 46 "T.V.I. Tips;" (i) High pass filters. (ii) A co-ax filter.

"CQ," AUGUST, 1950

P. 11 "How to Neutralize Your Single Ended Triode Fins;" W. B. Hines—Harmonic neutralization by bridge neutralization for 887, 813, etc., plus a special trick for 813s by using the beam forming plates for neutralizing. Name idea can be used to neutralize receiver IF stages if they want to take off.

P. 14 "Gain Without Headaches;" C. E. Falar—Uses of the Wallman cascade circuit.

P. 19 "W9EQQ Builds Another Beam;" H. H. Hines, W6BZK—Constructs a 10 metre and four element 10 metre beams interlaced.

P. 30 "CQ Tests the Lyco Transmitter;" A. H. Hayes, W3HYF—Comments on commercial 20 watt transmitter, 6AQ7 v.o.c., 6AQ7 buffer, 807 final, band switched 160 to 10 metres.

P. 25 "Use Your 306LTs;" E. P. Bonner, W6RLA

P. 34 "SCR274M Transmitter Modifications;" J. W. Whistler, W3RPR—Useful alterations for making this popular dipole斯ome more suitable for Amateur operation.

P. 39 "Builds a Non-Guyed Steel Tower;" G. Johnson, W7OTZ.

P. 31 "Rao-Audio Selectivity Using Standard Parts;" I. F. Fleming—Three section LO filter using small power filter chokes.

"RADIO AND TELEVISION NEWS," AUGUST, 1950

P. 29 "Radio Control of Model Boats;" W. L. Howes, W4GER—Very simple radio control equipment.

P. 46 "A Simple Noise Limiter;" R. P. Hayland—1N84 and 0.6 meg. resistor connected across audio load resistor of the second detector.

P. 47 "Voltage Regulation for Higher Fidelity;" J. C. Beasley—Good article on V.S.W.R. power supplies.

P. 50 "A Complete Amateur Band Sweeper;" R. D. Zimmerman, W7ROY—4.5 to 5.1 Mc. plug-in coils. Twin triode mixer, 1,000 ohm R.F. i.f.

P. 61 "Completes 30 Watt Ham Station;" G. Johnson, W6LWY—Transmitter 616 c.m., Receiver 6K8 mixer, 6SN7 detector and audio.

P. 65 "Home Built 2 Inch Oscilloscopes;" J. S. Anderson, W5UPE—Using simple e.r.o.

"CQ," SEPTEMBER, 1950

P. 13 "Building and Using the Antennoscope;" W. M. Scheiben, W2AEP—The Antennoscope can be used to determine antenna resistance and resistance, to match transmission lines for minimum a.w.r., to find receiver input impedance and other r.f. measurements. Consists of simple resistance bridge and looks like an extremely valuable instrument round the shack.

P. 19 "Push-Button Control Circuit;" W. Waite, W6DGD, and G. Grandt, W8AII

P. 26 "How to Build an Operating Console;" C. A. West, W7WYO

P. 24 "Simplicity on Six;" C. O. Bishop, W7HEA—Modulator using 6A6 with 6L6 or 6A6 type input matching and 2 1/2 LF output.

P. 27 "PI Network Tank Circuits;" E. W. Pappius, W6SYF, and E. L. Ellsworth, W6SQO—The good oil on the adjustment of pi networks.

P. 34 "Four-Band Mobile Rig;" H. Bumbaugh, W6HII—Tans 815 final and 815 modulator, covers 80, 40, 20 and 10 metres.

"QST," SEPTEMBER, 1950

P. 11 "Crystal Controlled Conversion for V.H.F. Transistor;" E. P. Tilson, W1HQD, and C. A. Chambers, W1WQD—Conversion circuit for 10, 12 and 2 metres using cascade circuits in push-pull 616 circuit.

P. 12 "The Mountaineer—A Hiker's Portable;" R. W. Terrell, W5TB7—Light weight dry battery 80 metre transceiver-receiver.

P. 20 "Another Inductive Coupling System for Rotary Beacons;" E. E. Mumma, W5ORL

P. 28 "A Simple Voice-Operated Keyer for Automatic Break-In Operation;" J. L. Flanagan, W1BT

P. 29 "A Two-Control V.F.O. Rig with Bandpass Excitor, Part II;" C. V. Chambers, W1JFQ

P. 34 "Safety and Commonness in Transmitters;" N. X. Hall, W5PPE—Commonsense construction when components are mounted on panels. Panels hinged on front opening forward to allow access from the front of the rack.

P. 38 "A Dual Crystal QS-er;" R. A. Titus, W1TQH—Booster selectivity from a two-crystal filter.

P. 40 "Working DX;" B. Goodman, W1DK

P. 44 "Push-Button Power Control Circuits;" J. W. Hansen, W5PUE

# Low Drift Crystals FOR AMATEUR BANDS

ACCURACY 0.02% OF  
STATED FREQUENCY

3.5 Mc. and 7 Mc. Unmounted	£2 0 0
Mounted	£2 10 0
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Spot Frequency Crystals Prices on Application.	
Regrids	£1 0 0

THESE PRICES DO NOT  
INCLUDE SALES TAX.

**MAXWELL HOWDEN**  
15 CLAREMONT CRES.,  
CANTERBURY, E.7,  
VICTORIA

# FEDERAL, QSL, and



# DIVISIONAL NOTES

Federal President: W. R. GRONOW (VK3WG); Federal Secretary: G. M. HULL (VK3ZB), Box 2611W, G.P.O., Melbourne.

## NEW SOUTH WALES

President.—J. Corbin, VK3YC.

Secretary.—H. Duff (VK3KO), Box 1784

G.P.O., Sydney.

Meeting Night.—Fourth Friday of each month at

Science House, corner Gloucester and Essex

Sts., Sydney.

Divisional Sub-Editor.—A. O. Pearce, VK3ARH,

131A Balmain Rd., Leichhardt, N.S.W.

Zone Correspondents.—With Central Tasmania: J.

B. Williams, VK3XO, Raleigh, Newcastle.

H. Whyte, VK3AE, Vale St., Birmingham

Gardens, Newcastle, Coalfields and Lakes:

H. Hawkins, VK3YL, 27 Confort Ave., Cessnock, Western: W. H. Duff, VK3WH, Cum-  
berlith, Rd., Cessnock, Western: G. E. Mc-  
Cormick, H. R. Haynes, VK3DO, 48 Pittt St., East  
Western Suburbs: A. G. Pearce, VK3ARH, 131A  
Balmain Rd., Leichhardt, Eastern Suburbs:  
D. B. Knock, VK3NO, 43 Yanco Avenue,  
Waverley, North Sydney: L. D. Cuffe, VK3AM,  
1711 Military Road, Neutral Bay: G. A.  
Aukerman, VK3AIG, 25 Park Rd., Carlton;  
South Sydney: H. V. Wilcox, VK3FW, Cr. Wil-  
son St. and Marine Pde., Macquarie.

## VICTORIA

President.—G. S. C. Bernamino, VK3GZ.

Secretary.—O. Dyer (VK3SDY), 19 Collington Ave.,  
Brighton (N.S.W. 6328).

Administrative Secretary.—Mrs. S. May, Law Court  
Complex, 191 Queen St., Melbourne, G.V.

Meeting Night.—Second Friday of each month at  
the Radio School, Melbourne Technical College.

Zone Correspondents.—Western: G. C. Ward,  
VK3YW, 12 Skene St., St. Kilda; South Western:  
K. O. Burke, VK3AK, Elsternwick, Westmore-

North Eastern: T. H. Tennant, 18 Harold

S. Shepparton, Far North: Western: M. Fole,

101 Victoria St., Ballarat: Eastern: D. O. Kel-

lis, VK3AE, Traralgon; North Western: C.

Cass, VK3ACE, Cumming Ave., Birchip.

## FEDERAL

### F.E. DISCUSSIONS WITH P.M.G. DEPARTMENT

Federal Convention items from the 1930 Conven-  
tion concerning the Postmaster-General's Department  
are dealt with hereafter together with the results arising  
from discussions between Federal Executive and the  
Department.

**Item 27:** That Federal Executive approach the  
P.M.G.'s Department for permission to play back  
recorded 50 Mc. and higher transmissions on those  
bands. **Result:** The licensees of any Amateur Stations  
are permitted to record and re-transmit on 50 Mc. and  
upwards recorded and re-transmissions will be made  
from Amateur Wireless Stations operating in those  
bands. The equipment so employed must be capable  
of producing recordings of high quality. Re-  
transmissions must at the request of an individual  
operator be limited to no more than five minutes  
in the aggregate in any one day.

**Item 28:** That representations be made to the  
P.M.G.'s Department for permission to record by  
modern techniques transmissions of Amateur Stations  
and play back over the air on frequencies to be  
agreed upon with the Department. **Result:** The Depart-  
ment has agreed that the issue of permits may be  
in the various States to record and re-transmit the  
emissions from Amateur Wireless Stations operating  
on the Amateur frequency bands below 50 Mc. shall  
be increased to allow for the issuance of any number  
of permits. The maximum period for which permits  
will be issued is six months. **Permits:** All permits will be issued by each Superintendent to Institute  
members and non-members in the same proportion  
as the Amateur Advisory Committee persons in  
the various States will be when it is found that the  
number of licensed non-F.E.C. members that the number  
concerned in each State desire permission to undertake  
recordings and re-transmissions of Amateur  
transmissions, and vacancies may be filled by W.L.A.  
members. **Chairman:** The chairman will be appointed by  
the Superintendent concerned after recommendation  
by the State body of the Institute.

**Item 30:** That the P.M.G.'s Department be ap-  
proached for permission to transmit music on Type  
A3 stabilized emission for experimental purposes  
on sections of the 50 Mc band and higher. **Result:**  
The Department was unable to accede to the  
request.

**Item 31:** That the P.M.G.'s Department be ap-  
proached with a request that all licensees in the

## WI BROADCASTS

All Amateurs are urged to keep their fre-  
quencies clear during, and for a period of 15  
minutes after, the official Broadcasts.

**VK2WI**. Sundays, 1100 hours EST, 7195 Mc.  
and 2000 hours EST 50 and 144 Mc. No  
frequency checks available from VK2WI.  
Intra-State working frequency, 7175 Mc.

**VK3WI**. Sundays, 1130 hours EST, simultaneously  
on 3580 and 7195 Mc. and re-broad-  
cast on 50 and 144 Mc. bands. Intra-State  
working frequency, 7185 Mc. Individual  
frequency checks of amateur stations given  
when VK3WI is on the air.

**VK4WI**.—Sundays, 0900 hours EST, simultane-  
ously on 2750, 7195, 14415 Mc. Frequency  
checks are given two nights monthly, and  
the times are announced during Sunday  
broadcasts. 7065 Mc. channel is used from  
1900 to 1930 hours each Sunday as VK4  
query service to VK4WI.

**VK5WI**.—Sundays, 1000 hours EAST, on 7195  
Mc. Frequency checks are given by VK5DWL  
by arrangement only on the 7 and 14 Mc.  
bands.

**VK6WI**.—Sundays, 0930 hours WEST, on 7195  
Mc. No frequency checks available.

**VK7WI**.—Sunday at 1000 hours EST, on  
7195 Mc. No frequency checks are available.

Northern Territory be allotted the prefix VK8.  
Result: For reasons previously explained, this re-  
quest is denied.

**Item 32:** That Federal Executive be asked to  
endeavour to speed up the allocation of the 21 Mc.  
band in view of the large amount of commercial  
interference on the 7 and 14 Mc. bands. **Result:**  
Pending implementation of the Atlantic City Pro-  
tection Order the Department is unable to take  
action as requested.

**Item 33:** That Federal Executive approach the  
P.M.G.'s Department for permission to broadcast  
from the Institute stations, talks of a technical  
nature such as those given at monthly meetings  
and also an extension of the existing approval  
given for one of the weekly meetings each  
month to include technical talks, the total duration  
of which shall not exceed 30 minutes.

**Item 35:** That the P.M.G.'s Department be ap-  
proached to extend automatic permission for port-  
able operation to the 27-28 Mc band. **Result:** For  
the reasons given in representation, the De-  
partment could not agree. The main reason arising  
from the discussion between Federal Executive and  
the Department was that the Department felt justified  
in knowing where and when a portable station  
is operating should it be necessary for them to  
come into contact with it. The signal interference  
is commercial channels. Despite the fact that  
operators, under the regulations, must sign their  
call and location at least once every five minutes,  
the Department consider that with automatic per-  
mission for portable operation it would be difficult

## W.I.A. ACTIVITIES CALENDAR

- Dec. 2-3: Fourth All-European DX Com-  
petition, 2900 hours.
- Dec. 16-Jan. 7: Ross A. Hull Memorial  
Trophy V.H.F. Contest.
- Dec. 18: Medals for 21st Convention due  
with Divisional Councils.
- Jan. 12: Competition Medals due in to Fed-  
eral Executive.
- Jan. 27-28: W.I.A. Nat. Field Day Contest.
- Jan. 31: Membership Roll of each Division  
due with F.E.C.
- Feb. 1-2: B.E.R.U. Contest—Phone.
- Feb. 24-25: B.E.R.U. Contest—C.W.
- Feb. 28: Convention Par-Capita due with  
F.E.C. end of Fiscal Year of Divisions.
- March 3-4: B.E.R.U. Contest—C.W.

## QUEENSLAND

President.—J. F. Pickles, VK4PP.

Secretary.—W. L. Stevens, VK4TH, Box 985,

G.P.O., Brisbane.

Meeting Night.—Third Friday in each month at the

17 Waymouth St., Adelaide.

Divisional Sub-Editor.—Oliver J. Cooke, VK4OC

Kuran Street, Chelmsford, Brisbane.

## SOUTH AUSTRALIA

President.—E. A. Barker, VE1MF.

Secretary.—G. M. Bowen, VK3XU, Box 1284K,

G.P.O., Adelaide.

Meeting Night.—Second Tuesday of each month at

17 Waymouth St., Adelaide.

Divisional Sub-Editor.—W. W. Parsons, VK4PS,

Explorana, Henley Beach.

## WESTERN AUSTRALIA

President.—B. W. Hugo, VK4KW.

Secretary.—W. E. Coxon, VK3AO, 7 Howard St.,

Fremantle.

Meeting Place.—Padbury House, cnr. St. George's

Ter. and King St., Perth.

Meeting Night.—Third Friday of each month.

Divisional Sub-Editor.—Also A. Smith, VK4AS,

75 Weston St., Cottesloe, Western Australia.

## TASMANIA

President.—J. Brown, VK1EB.

Secretary.—R. D. O'May, VK1OM, Box 371B,

G.P.O., Hobart.

Meeting Night.—First Wednesday of each month at the

Photographic Society's Room, 168 Liver-

pool St., Hobart.

Divisional Sub-Editor.—G. Knell (VK7SJ), 77 Molle

Street, Hobart, Tasmania.

Northern Zone Correspondent.—R. H. Kirby, VK1RE,

8 Galvin Street, Launceston.

to police the bands where out-of-band operation or  
commercial interference may require them to do so.  
—Federal Secretary.)

**Item 36:** That representations be made to the  
P.M.G.'s Department for permission to operate trans-  
missions on portable equipment without a permit  
for a portable license, in any frequency band.  
**Result:** The Department was unable to accede to  
the request. (The reasons are in the terms of Item  
35 above.)

**Item 40:** That approval be sought from the  
P.M.G.'s Department for the use of an identifying  
signal, similar to that used for emergency traffic,  
the signal to have the significance "I am conducting  
emergency traffic; please do not cause interference," and that Federal Executive be instructed  
to give the signal wide publicity. **Result:** The De-  
partment is not object to the proposal, but Federal  
Executive to determine what the concession would be  
a suitable signal and to further discuss the matter  
with Chief Inspector (Wireless) before introducing  
the procedure. (Federal Executive requests that  
no emergency communication outside the Divisional  
Councils, bearing in mind the nature of the signal,  
must be inappropriate and be dissimilar to any other  
signal used by Commercial Services.)

## PERMITS TO RECORD AND RE-PLAY

The following Amateur Wireless Station Licensees  
in the various States have been granted permission  
to record and play transmissions from other Am-  
ateur Stations during the twelve months ending 31  
September, 1931:

**N.S.W.:** No applications received.

**Victoria:** VK3YM, Dr. E. Marks, Malvern; VK3DH,  
Mr. I. Morgan, Hawthorn; VK3DU, Mr. W. A.  
Rowthorn, Geelong; VK3HP, Mr. B. E. Fuller,  
Warrnambool; VK3TA, Mr. H. V. Hardinge, Horsham.

**Queensland:** No applications were received.

**South Australia:** VK3GL, Mr. C. Tibbley, Colcock  
Light Observatory; VK3XW, Mr. H. W. Holton, Ulley Park.

**Western Australia:** VK3XW, Mr. R. W. Hugo,  
Subiaco; VK3ZS, Mr. J. Spinks, Subiaco.

**Tasmania:** No applications were received.

## APPLICANTS FOR DX C.C. PLEASE NOTE

Proprietary members of the DX C.C. are required  
that the cards submitted to the DX C.C. Manager  
for checking are to be in alphabetical order of  
CALL SIGNES. A list in the above order showing  
call sign of station worked, date, frequency,  
and type of transmission must also be submitted.

## SUCCESSFUL A.O.C.P. CANDIDATES

The following is a list of candidates who were successful at the examination for the Amateur Operator's Certificate of Proficiency held on Tuesday, 10th October, 1950.

### New South Wales:

Aespy, R. J., 126 Charles Street, Ryde.  
Dunford, R. G., John Street, Coonaburra.  
Hansen, N. A., Ryan Avenue, West Kempton.  
Nowell, E. W., 104 Crimson Street, Hurstville Park.  
Reeby, A. W., c/o Mr. F. Cracknell, Lumsdale Street.  
Piston, F. J., 122 Douglas Street, Stockton.  
Smith, R. H., Cr. Glynn and Cobey Streets, Dubbo.  
Tavares, P. A., 89 Prince Street, Stanmore.  
Taylor, W. D., 14 Victoria Street, Stanmore.  
Thomas, B. W., 2 Haulif Avenue, Wahroonga.

### Victoria:

Akram, M., R.A.A.F. Air and Ground Radio School,  
R.A.A.F. Hallaral.  
Barrett, P. J., 207 Portobello Road, Middle Brighton, S.E.  
Casper, R. F., 12 Roosevelt Court, E. Brighton, S.E.  
Cattaneo, J. R. A., 14 Francis Street, Werribee.  
Collins, M. A. L., 16 Natimuk Road, Hornsby.  
Lawless, L. E., 12 Hall Street, West Hornsby.  
McNabb, R. I., Newstead, 1000.  
Power, J. H., "The Shack," Birdwoodian via Mildura.

### Queensland:

Atkinson, J. A., Cr. Maude and Western Streets,  
Wando, Rockhampton.  
Greenwood, R. H., Department of Works and  
Housing, Box 256, Rockhampton.  
Weatherley, H. J., East Street, Clifton.

### South Australia:

Caldwell, W. O. N. T. Comd. Box 800 Milto, Darwin.  
Coxon, B. W., 100 North Terrace, Adelaide.  
Dow, M. R., 80 Alexandria Street, Prospect.  
Neale, J. B., 8 Deacon Avenue, Marion.  
Schilz, D. F., 44 Janet Street, Maryland.  
Smith, R. C. W., 22 Jersey Street, Torrensfield.

### Western Australia:

Dowsett, H. R., 80 View Street, Albany.

### Tasmania:

Kirmsse, A. G., Flat 5, 10 Frederick St., Launceston.

## ADDITIONS, ALTERATIONS, AND DELETIONS TO AMATEUR CALL SIGNS—OCTOBER, 1950

### Additions—

VK3HM—S. S. Sargent, 98 William Rd., Carlton.  
TACK—J. A. McCay, "Alray," Boundary St.,  
Tweed Heads.

2AQH—Mr. Powell, 16 Stewart St., Artarmon.  
ASA—W. A. Symons, 53 Edens St., Aspley,  
A.C.T.

TATH—R. Barber, 41 Hamilton St., Lane Cove.  
SAVS—R. T. Southwood, 183 Liverpool St.,  
Sydney.

SAVY—W. O. Yates, 55 Thomas St., Orange.  
2AXM—W. A. McDermitt, 173 Matildae Rd.,  
Mayfield, Newcastle.

VESADD—D. G. Dunstall, 13 Chamber St., Moonee  
Ponds.

SAKE—R. Edwards, Golden Vale, Willow-  
moor, Werribee.

SAHIS—H. J. Albrecht, 10 Belgrave Ave., Box  
Hill North.

VK3AJG—J. J. Gallagher, c/o Radio Station 4CA,  
Adelaide.

4LA—W. G. Smith, Wallonee Road, Amberley,  
4PT—C. R. Paton, 3 Jenkins St., Toowoomba.

VKSABH—H. V. Eastwood, 12 South Pde., Darlington.

5IM—W. B. Meach, R.A.A.F. Station, Darwin.

VK6BRS—S. H. Smith, Avon 14041 of 19460,  
Manzaanaring.

6JA—J. A. Cook, 78 Angels St., South Perth.

VK3NT—J. M. Harrison, c/o A.W.A. Ltd., Aviation  
Service Depot (Aerozone), T.R.G. (T.R.G.).

### Alterations—

VK3DPF—99 Normanton Street, Birrong  
1MP—51 Watson Street, Bondi.

2X5—99 Spofforth Street, Cremorne.

2ADG—9 Timmins St., Birmingham, Gardens.

2AEI—"Rothsay," 147 William Street, Young.

2AFJ—Forest Glades, Yorkeina Ave., St. Ives.

2AO—100 Gloucester St., Sydney.

2AGZ—9 Pleasant Ave., Wollongong.

2AKT—9 Elmata St., Moone Vale.

2ALG—Burke Street, Parramatta.

2AMW—100 Oxford Street, Wollongong.

2ANL—100 Office Road, Campbellfield.

2ANO—6 Gore Street, Arncliffe.

2ARZ—192 Eastern Valley Way, Castlecrag.

2AVO—8 Smith Street, Wollongong.

VK3RD—55 Jordan Street, Malvern.

STY—c/o STB, Sale.

STZ—c/o Coles Pharmacy, 96 Main St., Stawell.

SZO—Flat 7, 40 Manningham St., Parkville.

SAUJ—Deakin St., Kensington West.

SAJZ—J. Earth, 443 Waverley Rd., North

Cambridge.

2AWB—658 Bell Street, Preston.

VK3MC—c/o Sandgate Road and Eton St., Mundah.

4OA—8 Liley Street, Tooroobera.

4SV—24 Jamieson Street, Bulimba.

VK3CD—39 Kitchener Street, Kilburn.

5SKB—195 Mcleod Ter., Whiteman (P. O. Box 107).

5KU—20 C. A. St., Mount Gambier.

VK3UP—Grand Promenade, Baywater.

5FL—"Hillcrest," Gooseberry Hill.

VK3HE—Cancelled.

2AIX—Cancelled.

2ANY—Cancelled, now operating under VK3JGJ.

2ARZ—Cancelled, now operating under VK3ACK.

VK3ACB—Cancelled, now operating under VK3ACK.

VK3BO—Cancelled.

4SV—Cancelled, now operating under VK3AVB.

4WY—Cancelled, now operating under VK3AWY.

VK3QSL—Cancelled.

8SA—Cancelled, now operating under VK3ARA.

### Deletions—

VK3HE—Cancelled.

2AIX—Cancelled.

2ANY—Cancelled, now operating under VK3JGJ.

2ARZ—Cancelled, now operating under VK3ACK.

VK3ACB—Cancelled, now operating under VK3ACK.

VK3BO—Cancelled.

4SV—Cancelled, now operating under VK3AVB.

4WY—Cancelled, now operating under VK3AWY.

VK3QSL—Cancelled.

8SA—Cancelled, now operating under VK3ARA.

## FEDERAL QSL BUREAU

RAY JONES, VK3NN, MANAGER

And yet another for the certificate hunters! The A.M.L.A. (Amateur League of Australia) has issued a new set of certificates or diplomas to all foreign Amateurs who have worked the eight radio districts of Cuba. The QSO may be in c.w. or phone on any band, and s.w.s. may also claim the award. Forward your eight QSLs to Box 128, Swan, Qld., Australia. The eight districts are as follows: Pinar del Rio, City of Havana, Provinces of Matanzas, Provinces of Las Villas, Province of Oriente, Provinces of Camaguey, and Provinces of Ciego de Avila. Stations signing CO work c.w. on all bands, and stations signing CM work c.w. on all bands. (Cuba) stations signing CM work c.w. on all bands, but those only in Class B; CM8 is not a district. It is a prefix allotted for purely experimental work.



Throughout the world  
this symbol guides the  
Choice of Millions.

# PHILIPS INNOVAL

BEST FOR ALL  
ELECTRONIC  
APPLICATIONS





to move to Charlestown very soon; what about coming to our meeting and meet the gang.

Up at Matland, 2XQ has his emergency rig, the 18-80, going very fb. now—he really did enjoy the "Scramble" from all accounts. In November he will be taking part in the Octo. DX contest, 2DG, went into the contact tour finishing up with a good score. 2ANL is now active on 6-10-20-40-80-1500. 2078 signals are very strong in Newcastle, especially on 68 m. 2ANU hopes to get going on 2, 10, 20, 40, 80, 1500. 2ANV is still active on 20, 40, 80, 1500. 2ANW has seen power. 2IVY has a private license to KH6 on 10, having had over 100 QSOs with our particular KH6. 2IVY only seems to be active on 10, but does well on that band. 2AKP is still active on 10, 20, 40, 80, 1500. 2AKT is getting along well on 10, 20, 40, 80, 1500. 2AHA has been active a few numbers in the "Scramble." A very merry Xmas to all W.L.A. members from the Hunter Branch boys.

## COALFIELDS AND LAKES

Most interest during the past month was centred around the Hunter Branch "Scramble," many stations in the zone took part. Many a story will be told of the way the 50 and 144 Mc. boy stock up to their bands and put up a good show. The 144 Mc. stations were particularly popular. No. 50 station in the contest, SADT was the only station to concentrate on 144 Mc. work and had contacts with seven stations in Singleton, Newcastle, Kurri Kurri, Cessnock and Leichhardt. SYU finally made 3 metres by contacting SADT using a four element beam. The 144 Mc. stations were also very active with over 400w. at 60 Mc. SYE received his 3 metre beam from 60 foot house. SYX re-appeared on 2 after an absence of about six months, while SYZ made time to have a QSO.

JANU still doing remarkably well with his 4 walks, had several 50 Mc. test contacts, at present is building up 1 metre gear. 2VU is one of the consistant ones on 6 and looking forward to the summer DX. Battling hard to finish cupboard building before DX breaks. KEP putting out a consistant

on 8, 8 and 10. Watch out for wire entanglements if you visit Bob, admitted to 2EZ that he couldn't move for wire. Only heard 2YO on 10. 10Z daily with a new with a 100' dipole, lower frequencies. 2A1E at present not active. 3YL working all bands a little and has got himself on 3I: works 2ADT with a dipole in a shack. 1GA is going on 3 and 4 and seems to have a good adk. 1WZ working 20m, 40m, 80m and 160m. 1WZ also having show up. 1ERL also going on 6, working his locals, but not heard here on Coatsfield.

With the floods out west, the members of the zone have been busy in emergency work. Zone Officer, SWR, is isolated once again—not mail—for the twentieth time this year. In Orange, CALS has put his AT&T on the air and E&I spent a week getting him a callbox, but no results. Stan on 144 heard him in a blow and will be on next week. In the Blue Mountain, stations are not very active. SLY specialize in R&A, the line-up at present is 15 KC to 2,000 KC. A CAA marine job was received from N.Y. on 15 KC to 20 KC. 15 KC to 190 KC and S37 to 144 Mcs and an ASN RVX for 144 Mcs—just the bare five. Stan's 8-foot telegraph pole for the 6 beam went up recently. KRT and SAGR both Airways open, a recent report of 20 and 40 when home. 121, finding the receiver and now in the house, the boy was surprised, didn't think the GM would ever make a builder. OTs remember he built a "Queen Mary" once, a receiver five feet long! SFI doing a little on 9 Mcs. The STB will be busy on the shack before long. Working on a special ZEP II working in the two, would like to get on 16 again and away the SW during the day.

## **SOUTH COAST AND SOUTHERN**

Mr. Reg George, associate member of Cootamundra, has forwarded along notes for this edition. Within two days of the broadcast from 2WI suggesting that associate members could help the news office in collecting notes, he had a letter from Reg George, who had collected 40 notes from 100 members over the back fence with STU and EHT in Forbes. Much discussion on doublet cells, 101s and FSB power supplies. Ray Bill, that 101 must have been altered if it had a 6VD in it. EATL doing a 101 on 10, extended the dip to 100. 2WI heard 21910, 21915, 21920 and 21925. Lee has written a KMT on 21920. Believe a beam crept into the discussion between 2PI and 2PM—what band follows? Not 1447 TRM heard on 40 running 100 watts. The report said the speech quality is very good—guess you must put just some grackle in the mike.

30Y burning holes in 40, heard working North Coast stations; little bird tells me your YF won't allow QSL cards to be mailed on the lounge room wall. Jack 20X on 40 with nice signal from n.b.m.—very pleasing quality. \$AOX laying down new signal on 40 and has some QSOs on 20; rig has been re-built. 3DV, President of the Long Club, is active under his own call. The YL is

## VICTORIA

The November monthly meeting was held at the Radio School, Bowen St., Melbourne, on Wednesday, 1st November. The attendance was good despite the transport difficulties, there being approximately 150 members present. The President (1968) opened the chair and declared the meeting open at 8.00 p.m. The usual minutes were read and confirmed and then the President called on the guest speaker of the evening, Mr. Len Jackson, to talk on the ever-absorbing subject—antennae. Len opened his talk with a brief description of simple whip and dipole antennas, then went on to discuss all types of serials, right up to the serial phased arrays. Numerous questions were fired at Len and the President had to call time, so as to get the rest of the business finished.

A short interval was taken and upon resumption of the meeting the usual reports were given. The Secretary reported that the time had come for the election arrangements. At this time the apparatus was in print, the elections will be all over. The Secretary reminded members that agenda items for the next Federal Convention should be sent in by the December meeting. The Treasurer's report, as read by the Secretary, disclosed a good balance in the treasury. After a few more items of general discussion, the President closed the meeting at 1220 hours.

SARA and JYL look very fit after their holiday in VKE. RJO still worried about his 955. SIM very busy with exams. SLP had trouble with one of his poles, it crashed; George now QRP. SDY nearly got strangled when his sky wire came down. SBE very QRL with DX C.C. claims. SKE trape-

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If you only knew one little item of interest, you can pass it on to me at a meeting. Don't be frightened that I will give my source of information away because my journalistic ethics wouldn't let me.

The train strike is apparently the cause of the late delivery of the "mag." this month. I did not realize that it was as popular as it is, but when counted up the members of the Council had been concering the lateness of the delivery, well I was amazed. This is all to the good, as I can remember quite well, if not by the name "mag," wouldn't have been missed if it had never turned up.

I outlined in the last issue of the "mag." that Bob Faech (6RL) has now cancelled his license. I should say that his duties as Chief Engineer of broadcasting station SKA give him all the radio equipment he needs, but I am sure that he will not be too far from the scene of action.

Bob Faech (6RL) is now operating with the callsign 5KU in his new home and is very pleased with everything and anything. Eng. is on 20 and 40 m. 5KU's hobby is to travel around on 40 m. and 2 metres, but Col is apparently becoming busier and busier, judging by his declining activity in Amateur Radio. Thanks for the notes Col. SMR, SCA, and SCJ strained their ears listening for SAKR and SAKL. Let me add that in October, he heard nothing that could be identified.

There is no doubt about it, if one cares to listen on 20, one can quite often hear a few things about oneself, and tonight I heard VIREB, an ex-VKS radio. What it is always possible to keep a check on the skyhookers who are flying around on notes. Wouldn't it! By the way, this Fanciful business is only a joke you know, so the joker that sent me a letter addressed to Fanciful Parsons, who heard nothing that could be identified.

Two months ago today I wrote in these notes that SYR would be making his own fireworks this year, but if my information is correct (and it was given to me by a female spy, named Mata Hari), Ralph was not very interested this year. A Guy Fawkes party was held at the house of Ralph, and one of the guests, 5LW, certainly did arrive home at the obnoxious hour of 3 a.m., but no mention has been made of any home made crackers. My spy also mentioned of large quantities of fireworks, but definitely not fireworks. Now, I wonder just who that female spy could be!

Talking of female spies, if any of my XYL readers would like to let me in on a few secrets of their OMs, I could use them. Now here's your chance girls, some of those things that do occur around the house may not be quite right to hurt his feelings. Just whisper it to me and he will never know what has happened until the train blows the whistle. You may trust me implicitly my dears. I close these notes this month with a query. What has become of 5BH? I miss his cheery voice on 30. Are you there Charlie?

5BA has at last left for the City of Churches and his QTH is Endell. How about coming along to the meeting one night BH1? SED is operating under difficulties at the moment due to an unsympathetic local master who does not like rotary clubs and associations changing the license. Keith, however, seems to manage to work his share of DX just the same. SBY has been in hospital with a broken collar bone as a result of a motor bike accident, which put him out of commission but he has gone again for medical treatment. He is still here hoping for a speedy recovery. A v.h.t. group has been formed with SRA as organiser in an endeavour to foster interest in 5M. Col and Ray would be pleased to hear of any of the Northern Territory bands that are interested. Ray says that it is only a Mo. crystals that is holding you back, then get in touch with him, as he picked up quite a few of these at a recent disposals sale. What more do you want? A potential QRN Master. Ted is still faithfully working on his 5LW, but we believe that the holdup is due to a technicality in his birth certificate. The stock certainly gets around these days. SRA is now the proud father of a baby daughter and Ham Radio has suffered. I hope that the notes of the above-mentioned Far Northern Zone.

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If I was removed, I would be the first to admit that I have done a little "crawling" in my time, but I don't think that I have sunk to the depths that one G station apparently had. I heard with my own ears the stories of the other stations, G. 4 station, who is an ex-VKS, say to 5MD, "I am sorry Doc, but I won't be able to stay very long as I am going to take my landlord's little daughter for a motor car ride in a few moments." Well, I am sure that the story is true, but I am not. He is living in a bit of a slum house with more rooms than he can use. Naturally I won't mention who it is that has such low, but I would never have believed that Ross Adey was capable of such tactics. After all, he is a doctor, one never knows what these doctors will do next.

The danger period for executive officers of the VK5 Council seems to have passed, as both the President and the Secretary are now well on the road to perfect health and have resumed duties. Both had been ill and when we returned to witness them back to the Council, 5CH is still getting much time for Amateur Radio but always manages to keep his aeronautics on 144 Mc. Claude has had quite a long spell of weekend work at the local power house, but I believe that it is a long time since he has been on 5M. He has come from a beautiful dosage of the "flu" (you didn't call it "beautiful") and also, Stewart has had his 10 metre beam down for alterations. It is now fed by a T match. SYR the latest report to 144 Mc. Peter has had all the necessary work for operating from his new location and although he has had no contacts as yet on the v.h.t., he will be on 40 metres to give him share. 5TW has had another quiet month but has managed a few contacts on 40 and 20 m. There is still contact with the serial (thanks to our President). You'll get on Col, skipping that one in on me!

5FD has been in the news this month if not on the air. John puts the 5FD broadcasting station in the south east of the air the other night and he moved one of the high tension poles out of position with his truck. No serious damage to anybody other than the pole. Listen Col, you got away with the preceding paragraph regarding the President, but I will let the paragraph stand as the best broadcasting station. Take ten years' notice.

5KU is now operating with the loco awaiting AC from his new home and is very pleased with everything and anything. Eng. is on 20 and 40 m. 5KU's hobby is to travel around on 40 m. and 2 metres, but Col is apparently becoming busier and busier, judging by his declining activity in Amateur Radio. Thanks for the notes Col. SMR, SCA, and SCJ strained their ears listening for SAKR and SAKL. Let me add that in October, he heard nothing that could be identified.

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#### FIELD DAY AT KULPARA

A successful Field Day was held by the VK5 Northern Network at Kulpara on 29th October. We are indebted to VK5EUN for the following details of the meeting. The gathering consisted predominantly of 50 people. Hon. included 5LW (Mangalore), 5CY (Balaklava), SVA (Crytal Brook), 5XK (Peterborough), 5CO, 5EN, 5SK (Port Pirie); 5WQ (Laurel), 5PQ (Whyalla), 5LZ (Clare), 5D (Flinders), 5RJ, 5AF (Adelaide), and 5AL (Maitland). (Vicinity responsible for W.L.A.) Local interest was aroused by announcements in local papers and over the ABC and brought non-local visitors from a 20 mile radius.

Photographs were taken by 5AF. A sack race and a relay race with competition was run for the children, while boating at stamp and thread the needle events were organised for the ladies. Mystery parcels for men and women caused some fun. For the men, SAX finally got what he wanted, namely, a "radio" which he thought he could have called "diseased electron gear!". The lucky and unlucky lady and gents were hallored for and 5DF walked off with three beautiful front-loading beams that wanted for.

5OF with 50 and 144 Mc. gear and contact with Adelaide (60 miles) was made on both bands with excellent signal strength. Joe McAlister had a 144 Mc. handie-talkie (he heard plenty of car ignition) and Clarris Castle (5KL) had an 80 Mc. receiver. The 144 Mc. gear contest and 50 Mc. gear contest was won by 5WQ at 25 w.p.m. with 5KU second. Some good home made gear was on display. The prize was won by 5EJ with his 50 Mc. converter—a really fine piece of workmanship.

Conditions on low frequencies were, unfortunately, so poor and the complete lack of clouds and much QRN (and heat), the propagation between 5WQ and 5EJ was won by 5GF on the v.h.t. bands. A "miles per watt" competition, run in conjunction with this contest, was also won by Max (5GF) who averaged 2½ m.p.w. on 6 and 1½ m.p.w. on 20 metres. Prize giving ceremony took place at 1800 hours to give long distance travellers a chance to get home at a reasonable hour.

The Northern Network are indebted to the following for their tremendous support in making the Field Day a success. Newsprint: 5LW (F.W. fitter); Gerard & Goodman Ltd. 12/1/1; B.R.P. Co. Whyalla, £2/1; Phillips Electrical Industries, an £34 value; Oliver J. Nilson & Co. Ltd. 1/1/1; Radio Electronics Wholesalers Ltd. 10/16; Mr. Peter Spencer, a. W.M. 10/16; 5WQ 100 Q.D. 22G, three front-loading beams. Our grateful thanks are due also to 5CY who supplied an amplifier, and 5YV who cut the record for the code speed contest. It is thought that everyone had an 8 ft. time. Let us thank the W.I.A. put on a big day (at National Park, say) each year on N.P.D. or on some public holiday.

## WESTERN AUSTRALIA

The October meeting of this Division was held on Tuesday the 27th at the usual location with an attendance slightly higher than the previous two months, which is a very good sign. It was also very encouraging to see three new members admitted to the Institute. We also had OM2A (Jack O'Neil), and SBA (Mr. B. Moore). Let us hope that your associations with the VK5 Division are long and happy ones, gentlemen.

There was one visitor present at the meeting, VK5TN, who was welcomed in the usual manner by the President. SWL 5TN replied to the welcome and said that it seemed about right. I especially liked the little anecdote about being met by VK5. Apparently he was sent for a drive by one of the officials of that Division and was a little perturbed when the car drove up to a pair of omnibus looking like the ones you see everyday by the seashore and then been parked carefully after they had ended. "Don't worry," said his host, "he just where I work." "There was a VK5 present there," announced 5TN in all innocence. "Quick as a flash came the reply from SAB, "was he heads or out?" and it seems that the question was rhetorical. Strange to relate 5TN didn't mention visiting any broadcasting stations whilst in VK5, however he returned East on the morning following the meeting, taking with him the good wishes of that Division for the N.S.W. fraternity.

Following the conclusion of the business for the evening, 5TN gave his contribution to the "Radio Station" series of lectures and made a very works-like job of it too. Each section of the equipment was taken in turn, and any unusual items followed through in considerable detail. Two films followed through the projector and the last dealt with electron theory as applicable to vacuum and gaseous tubes and proved most instructive and interesting. Wish I could have seen it when I was studying for my ticket.

The meeting closed about 10.45 p.m. There was no meeting of this Division in December. It would normally be held on the 1st Saturday in December. However I consider that this would be too close to Xmas. However the Council meeting will be held as usual in December.

#### PERSONALITIES

5EJ makes headlines this month by being the first VK5 to compete on 50 Mc. gear. Once the boys get to know just what it is to compete with are emitting and can supply the missing carrier with a stable local oscillator of some sort, they should have plenty of QSOs, or at any anyway. 5WH is building a rig for excitation purposes of 80 metres; the present one being rather slow for a common exciter and modulator will complete the set-up. 5WT, during his enforced absence from air, is keeping his hand in building a dual conversion receiver. 5LW is still working on his 5LW. David is travelling East by car and taking portable gear with him. Will be working back to 5A on the way over. 5BQ is another who is busy on an elaborate double conversion receiver; how is it going?

5MK has just had a fortnight in hospital, but is back again pursuing his favourite pastime, via, blowing soap bubbles. At the end of 20 m. on every thing must be OK with 5LW and 5A. 5LZ is still busy with compass receivers as Qpers. Wonder who is going to be the first to have his operating 5GJ has the 144 Mc. home from hospital after a very serious illness and all hope now for Mrs. 5GJ is completely recovered and there will be no need to let up on the cooking and bottle washing. 5RW is now sporting a National NC200 and can be heard most evenings on 50 m. phone with a very nice signal. 5WQ has a 100 w.p.m. 144 Mc. gear. 5EJ can run 100 watts; if you do, you're likely to collect a decent sum.

5FL has at last settled down in Gloucester Hill. Frank tells me he had to do a spot of lumber hacking before he could string up a sky wire and the shack still encumbered by sixty foot trees. 5LZ, 5LW, 5EN and 5LJ are still persisting with 20 metres. It looks as though these patients will soon be rewarded. Shouldn't be long before the 144 Mc. breaks through on that band. 5UM has been very quiet of late, but is now showing there in strength. Part 21 5WQ has just got off working on the Bendix TE endeavouring to modify it for band operation. Seemed to be working OK on 40 M. No news from 5WZ and the Geraldton gang. No news is good news they say, so I guess all is well up there.

## TASMANIA

During the month of October all round improvement in conditions of the more popular bands occurred and during the course of the month increased number of SSBs were worked either working DX or engaged in tag chasing. Congratulations must be extended to the North-Western gang on their activities especially 5AB and 5BD whose efforts in propagating the VK5 allocations is well worthy of note. During the course of the month portable equipment was taken to the "Bluff"

overlooking Burnie and several excellent contacts between VKS and VKR were made. Six and two more were made with the intention of being followed up. Reports of strength 9 was usual. News has been received of the change of QTH of 7OK. Foley no doubt will be a loss to the Burnie gang and from what can be gathered condition for radio is unsatisfactory. Details will follow.

The weekly 7WI broadcast for the 23rd October was ably conducted by TLE, our hard working Emergency Network Officer, not heard much these days, but was created a real interest in emergency work among the listeners. Glad to hear you Len, may the recent emergency network was not as successful as hoped, but from the look of things, future State-wide co-operation is assured. Future field days are planned and all members are asked to help in building up this unit into a efficient force.

VGA's rig at present consists of a 5AG6 exc. 802 d/c, and a 813 final running 92 watts. VTR mod and VTR demod. A.J. JF100, VTR and VTR. Popularity of 9A has increased in recent months and some of those heard with 1B signals were 7SH, 7MK, 7AF and 7AG. The 40 metre gang consists of 7BH, 7LD, 7KX and 7KZ. Ham man the other day was Bert Clark, who has decided to sit for the February A.O.C.P. exam. 7AJ active on 10 and 20, recently heard working FJ100 using a 3 element rotary beam. No news from TEA, believe QRA. 7CQ visiting the bush. Last week we received report that Bill Weston ex-7YY, has retired from the rigours of the tropics and will shortly return to Hobart.

7KA now finished a new receiver after 12 months and believes 7AF really working more or less the same. Another 7AF recently moved out of the island one day, where have you got to Bob, haven't heard you for awhile. It is rumored 7ER is now an authority on Army procedure, especially when receiving pamphlet etc. 7AF and 7KX. Also here Joy is awake up to weekend "exercises". Another one time active Ham is 7JP, not heard for a year now. Les is now unfortunately away from home on a long tour of the world, probably the island. What's wrong in building some portable gear? Sorry 7KX to hear b.o.l. is causing some trouble, true don't you can fix up this master and from reports I have heard your signs are getting through. Oh well, our club is still in existence, prior to our November meeting, details are not available, but will be included in next month's notes.

#### NORTHERN ZONE

The second Friday in October, despite its ominous clouds, the 18th Annual Hamfest was a great success, pleasing roll up of members at the studio of one of our local h.b. stations, TLA, to witness an extremely interesting talk by Rex Maclean, TBR. The subject in general was "Records and Recordings" and he went into a lot of detail on his hobby. Obviously, a study of records has been a life long interest and the enthusiasm with which the subject matter was presented, together with the equipment used to demonstrate, was the major factor in maintaining the keen interest level throughout. One of the best we have had the pleasure of attending. Our thanks to you Rex and also to the management of TLA for the use of the studio.

We have two new Associate members to welcome to the zone and the Institute this month in the persons of Messrs. Solomon and Rich, both very keen and enthusiastic attendees of meetings. We're very pleased to have you and hope you think sufficiently well of us to consider joining our club. It is good to come. Our tally of Associates is quite impressive and it is to you that we look for the future full members, so keep the handbook and keys to the box and remember that the Associate membership is the stepping stone with the ticket on the gate.

Contest interest has waned considerably here and neither the VK-ZL nor the "CQ" Contests produced an entrant from this zone. The reason for this is that the operators here seem to be more interested in picking the state of conditions with the system of serial numbers that uses the same number as a termination. Even ten metres provided an interest by coming good for Europe for a couple of hours once.

All the cobwebs are being cleared from 50 and 144 Mc. gear around the town. Don't know if an Interstate break through as yet, but when they do we'll up there are plenty ready to knock them off.

The coming 7ZL was considered the right and now sounds f.b. Power line QRM is the big stumbling block there however, and Col certainly has his kit and someone else's share of trouble. Seems that 100, 120 and 144 Mc. gear is about to come.

TAD started to take an interest in life as the new shack nears completion. 7AM has been on the lower frequencies, but prefers the quiet of the v.h.f.s.; is therefore waiting with flattened ears for a VK3 to stick his head up on 144 Mc. 7BY has deserted the shack and is now in the garden with his tennis racket. Here my QRP efforts are still bearing fruit and the countries on five watts have now reached double figures. October as usual managed to provide two new ones to the grand total in the 7ZEM and PE5AA, but I cracked the 807s with the works for them, no five watts on DX like that.

## CORRESPONDENCE

The opinions expressed in these letters are the individual opinions of the writer, and do not necessarily coincide with those of the publishers.

#### CHALLENGE WAS NOT ISSUED

Tarriman, Qld.

Editor "A.R.", Dear Sir,

Reference to contacts with VKS, and items in latest issue of "Amateur Radio". I wish to make it quite clear that the challenge to VK3WI was responsible for same appearing in our magazine. The item was sent by someone who must have overheard a QSO which I had with VK1RL. I asked him to QSL me as I wanted VK1 to complete my VK3WI card. He had a VK3 card which was hard to get, and I believed I was one of the very few who had such a card.

It was good to see a letter from VKENO, written like the gentleman he is for the VK3 rigs. I am quite sure that VK3WI would have been very necessary. My contact was with VK3XT, Closney, and came about through that station seeking tidings of an overland party from southern VK5, perhaps also, VK3. Contacting Den Knock at Wymondham, Mr. W. R. Ewing, Manager of the Island Mission and the interest of VK5 therein. I was never foolish enough to think I was the only Ham to contact VKS. What I did say, however, still holds good, that I am one of the very few to hold a VK3 card. Long live the Island Mission.

—GEORGE HALDORF, VK4GO.

St. Paul's Rectory, Dora Creek, N.S.W.

Editor "A.R.", Dear Sir,

Re the claim made by Queensland on behalf of VK3GO of having the distinction of having a QSO with a VKS, looking through old logs I see that I had several QSOs from 1938 to 1948 with VK3WA on 7 Mc. and with VK3ET and old VK3 on 14 Mc.

—WILBER BROOKE, VK3SE.

## HAMADS

9d. per line, minimum 2/-.

Advertisements.—This heading will only be accepted from institutions who do not dispose of equipment which is their own personal property. Copy must be received by 8th of the month, and remittance must accompany advertisement. Calculation of cost is based on an average of six words a line.

Dealers' advertisements not accepted in this column.

**FOR SALE.**—Complete four element beam 2 metres, also elements for 6 and 10 metre beams. B. E. Cabena, 20 Uvada Grove, Kew, Vic. (Haw. 2371).

**FOR SALE.**—Rack, unused, standard 12" totally encr., rear door, sides louvred, fitted with eight "dish type" vertical chassis, six front panels (blank) enamelled grey, tailored dust cover inc. £30. Motor prop-pitch (new) gear box extensively modified as "CQ" August '49 for increased speed; 2 r.p.m. at 12v. AC/DC operation, £5. Selsyn motors, two Bendix 50v., 15/- each. Transformer: 600 watts specially made for above motors, 115v. 2.5a. c.t. 50v. 1a. c.t. 10v. 5a. 6.3v. 1a. £3. Eddystone S640, well kept, £25. Masts and guys, 2 x 36' in 12 foot sections, inc. 10 and 20 metre antennae. Numerous text books, parts, etc. J. W. Kennedy, 62 Dent St., Glen Iris, Victoria. (Phone: WM 6318).

**SELL.**—Complete Ham Station. Tx: 25w. phone/c.w., mod., pwr. supply, p.a. metered, m. coll. mic., key, reg. v.f.o. supply, 80-50 coils. Rx: 6 tube super, 1,000 Kc. i.f., B.L.O., Eddystone dial, two sets colls; all gear soundly built and proved. Also junk box; write for list. Must sell—what offers? Full details and circuit to enquiries. Griffiths, 91 Victoria St., Warragul, Victoria.

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# EDDYSTONE EQUIPMENT RACKS

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Uprights . . . . .	63" long.
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Cat. No. 642—Pair of Rear Vertical Channels.	Cat. No. 622—31" Panel.
Cat. No. 617—Standard Chassis.	Cat. No. 620—8½" Panel.
Cat. No. 616—Pair of Frames (top and bottom).	Cat. No. 621—10½" Panel.
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Cat. No. 745—Bottom Frame.  
Cat. No. 746—Pair of Short (31") Vertical Channels.

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4 Mc.	— 31 Mc.	14.9	— 16.0 Mc.
11 Mc.	— 30 Mc.	20.9	— 22.0 Mc.
		27.0	— 30.0 Mc.
			10 Metres

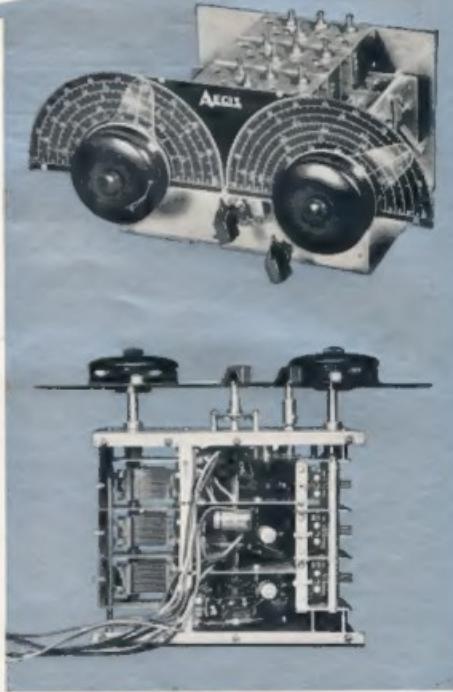
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